

FEDERAL TRADE COMMISSION

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## 1 FEDERAL TRADE COMMISSION

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3 COMPETITION AND INTELLECTUAL )

4 PROPERTY LAW AND POLICY IN )

5 THE KNOWLEDGE-BASED ECONOMY. )

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7 FEBRUARY 27, 2002

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9 Wells Fargo Room

10 Haas School of Business

11 University of California

12 Berkeley, California

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14 The workshop in the above-entitled matter  
15 commenced at 9:42 a.m.

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For The Record, Inc.  
Waldorf, Maryland  
(301)870-8025

## P R O C E E D I N G S

- - - - -

MR. BARNETT: My name is Michael Barnett and I'm a staff attorney with the Federal Trade Commission. I'd like to welcome everyone to the third day of our hearings at the Haas School of Business here at the University of California at Berkeley, entitled *Economic Perspectives and Real World Experiences with Patents*.

The hearings in Berkeley are provided with the support of the Competition Policy Center and the Berkeley Center for Law and Technology of the University of California at Berkeley as part of a larger series of public hearings from the Federal Trade Commission and the United States Department of Justice Antitrust Division, investigating competition and intellectual property law in the knowledge-based economy. This mornings hearings are entitled *Business Perspectives on Patents: Software and the Internet*.

Here today I would like to introduce Commissioner Mozelle Thompson from the FTC to my right; Commissioner Tom Leary also from the FTC here to my left; as well as Susan DeSanti, Deputy General Counsel for Policy Studies at the Federal Trade Commission; also, Pam Cole, who is a trial attorney at the United States Department of Justice; and Ray Chen,

1 Associate Solicitor at the United States Patent and  
2 Trademark office.

3 Gathered with us are representatives from  
4 software and Internet companies as well as academia and  
5 the legal community, to provide us with their insight  
6 into patents, competition and innovation within their  
7 business or field, and in turn, the industry in general.  
8 In my opinion, I think that this is an exciting group of  
9 individuals who are impressively distinguished in their  
10 fields, and I'm anxious to hear their thoughts.

11 With that in mind I think we should begin. We  
12 will start by briefly introducing each panelist, and  
13 following their introduction they will provide a brief  
14 explanation of what their companies do or who they  
15 represent or what their area of expertise is, to provide  
16 us with some perspective toward their relationship to the  
17 industry.

18 Following these introductions, four of our  
19 participants have graciously offered to provide us with a  
20 brief opening presentation to introduce us to ideas and  
21 issues that they find particularly relevant and important  
22 to the issues at hand. This hopefully will set the stage  
23 for further discussion from the entire panel into these  
24 and other issues.

25 To my far right is Joshua Kaplan. Joshua

1       Kaplan founded Intouch Group, Incorporated. The  
2       company's flagship product was a patented record store  
3       kiosk that allowed music consumers to preview any CD in  
4       the store and that collected data on certain consumers.  
5       The company received a patent on its on-line music  
6       previewing system as well.

7               Before founding Intouch Group, Mr. Kaplan was a  
8       technology research analyst with Gartner Group and worked  
9       with the San Francisco-based investment banking firm of  
10      Robertson, Stephens and Company.

11             Mr. Kaplan.

12             MR. KAPLAN: Thanks, Mike. Good morning  
13      everybody. Just briefly, I think Mike covered what we  
14      do, but we started encoding music back in 1990 and  
15      developed --

16             MS. RODRIGUEZ: Excuse me, could you just speak  
17      into the microphone a little more?

18             MR. KAPLAN: Sure, sorry.

19             MS. RODRIGUEZ: Thank you.

20             MR. KAPLAN: After coming out of the technology  
21      and investment banking business we put together a company  
22      that was responsible for approaching the music industry,  
23      this was back in 1990, and telling them we felt we had an  
24      interesting concept on unlocking the potential of the  
25      music to the consumer at the retail level while

1 collecting demographic and psychographic data on the  
2 customers so that the music industry could find out a  
3 little bit more about what their customers were doing.

4 The way that this worked was somebody would  
5 walk into a record store, fill out a form, get a card,  
6 walk up to device called an iStation, scan the bar code  
7 of a CD and be allowed to listen to anything on the CD or  
8 the tracks that we'd encoded. We encoded roughly 200,000  
9 CD's and this was starting in 1990.

10 We received a patent on that product called the  
11 iStation, which was a physical kiosk. We transitioned  
12 the business in 1995 to an online business, and received  
13 a patent in 1999 for the online version of the  
14 interactive kiosk that allowed for previewing music and  
15 collecting psychographic and demographic data on a  
16 customer and tracking the customer's progress through the  
17 website.

18 Since receiving the second patent we put  
19 approximately 190 companies on notice and went into  
20 litigation against 6 companies in March of 2000. We have  
21 settled with 5 of the 6 companies. We're currently in  
22 the Northern District litigating with the final company,  
23 and I'll talk a little bit more about that as we go  
24 further on.

25 MR. BARNETT: Next we have Robert Kohn. Robert

1 Kohn is Vice-Chairman of the Board and Director of  
2 Borland Software Corporation. He is also the co-founder  
3 of Emusic.com and the former Vice President and General  
4 Counsel of Pretty Good Privacy, Incorporated, a developer  
5 and marketer of Internet encryption and security  
6 software.

7 Robert.

8 MR. KOHN: Thanks. I started my career at  
9 Ashton-Tate in 1983 and before going to Borland as  
10 General Counsel. While I was at Borland we were involved  
11 in a highly celebrated intellectual property case that  
12 went to the Supreme Court called Lotus v. Borland, having  
13 to do with, in our view, the difference between copyright  
14 and patent and where the lines are drawn.

15 I started a company, as he mentioned, Emusic,  
16 which is the leading downloadable MP3 music service which  
17 was sold to Vivendi Universal last year, and I've  
18 recently done a startup company called Laugh.com, a  
19 comedy record company with George Carlin, so I wanted to  
20 do something less serious.

21 Borland Software today -- you know, in  
22 preparing for this I looked and I had testified for the  
23 FTC on November 29th, 1995, and I was reading my  
24 testimony last night and it holds up pretty well except  
25 Borland is almost a different company today than it was



1       seven years ago, which is very indicative of our industry  
2       and how companies can change so dramatically.

3               Borland is doing extremely well right now by  
4       entering into new phases and new areas of software  
5       development. Before, we were doing personal computer  
6       software, tools such as spreadsheets and databases and  
7       programming language tools, competing head to head with  
8       some of the major players, you can imagine who.

9               And now the company is focusing on development  
10      tools not only for PC's but also for the enterprise field  
11      as well as programming tools for PDA's like palm pilots  
12      and pocket PC's and cell phones, doing deals for  
13      development of job applications on the whole new wireless  
14      world. So the company has really, really changed what it  
15      was doing.

16              And one more thing that's relevant to what I  
17      may talk about later is that Borland, during my tenure as  
18      General Counsel from '87 to '96, I don't know the total  
19      number but I think we filed over 200 patent applications,  
20      filing patent applications for just about everything that  
21      Borland had innovated during that period.

22              MR. BARNETT: Thank you. Next we have James  
23      Pooley. James Pooley is a senior partner in the Palo  
24      Alto office of Milbank, Tweed, Hadley and McCloy, where  
25      he specializes in intellectual property matters, and he's

1 represented a wide variety of companies in the computer,  
2 software and Internet industries.

3 Mr. Pooley is also a member of the Board of  
4 Directors of the American Intellectual Property Law  
5 Association, a member of the National Academies of  
6 Science Committee on Intellectual Property Rights in the  
7 Information-Based Economy, an adjunct professor in the  
8 Intellectual Property Program at Boalt Hall, and the  
9 author of a leading treatise on trade secrets.

10 Jim.

11 MR. POOLEY: To the extent I have anything  
12 useful to say here, it probably comes simply from the  
13 fact that I have been a trial lawyer in Silicon Valley  
14 for almost 30 years now, and my first intellectual  
15 property career, if you can call it that, was focused  
16 primarily on trade secret disputes which formed in some  
17 ways the backbone of the development of Silicon Valley.  
18 But in the last 10 years my practice has focused almost  
19 exclusively on patent litigation, primarily, although not  
20 exclusively, on the defense side, and frequently in the  
21 areas of software and Internet patents, so my remarks  
22 will come from the experience base that I have in both  
23 defending and prosecuting those kinds of claims and in  
24 advising clients who are faced with assertion of those  
25 sorts of patents.

1                   MR. BARNETT: Thanks, Jim. Next we have Yar  
2                   Chaikovsky. Yar is the General Counsel with Zaplet,  
3                   Incorporated, an enterprise software and services  
4                   company. Before joining Zaplet this year, Yar was the  
5                   sole patent counsel at Yahoo!. Before that he was a  
6                   senior associate at the Patent and Technology Practice  
7                   Group at O'Melveny and Myers in Los Angeles, California.  
8                   Yar.

9                   MR. CHAIKOVSKY: Again, Yar Chaikovsky. At  
10                  Zaplet, it's interesting. I have a different take with  
11                  respect to Internet and software patents, because at  
12                  Zaplet we focus on enterprise software, collaborative  
13                  business process management, where obviously we're taking  
14                  on individuals such as Microsoft, IBM/Lotus, and focusing  
15                  on patents from that perspective and competition from  
16                  that perspective.

17                 On the other hand, as Chief Patent Counsel at  
18                 Yahoo! looking at the competition and then focusing more  
19                 on the Internet perspective that I bring to bear here,  
20                 dealing with the smaller competitors that have patents  
21                 and are asserting patents in order to extract rents at  
22                 the same time requires filing many patents at the same  
23                 time to protect our own innovations.

24                 But I will say out front that Yahoo! was able  
25                 to get to a \$120 billion market cap in its heyday with

1       only three issued patents in its portfolio.

2               MR. BARNETT: Thank you. Now over to my left,  
3       first we have R. Jordan Greenhall. He's the co-founder  
4       and CEO of DivXNetworks, a technology company that  
5       enables the distribution of DVD-quality video over  
6       Internet protocol networks. He has also served as a  
7       strategic consultant with InterVu, a streaming media  
8       services provider, and is Vice President of MP3.com.

9               MR. GREENHALL: I guess I'll just give a heads  
10      up of some areas that we have some expertise in. Our  
11      company is really focused on fairly low level  
12      technologies, algorithmic development, chipsets, so we  
13      may be the more hardcore technology side of the companies  
14      around here.

15              Previously at InterVu, for those who don't  
16      know, we actually had, I believe, five patents that  
17      covered most of the distributed networking space  
18      (inaudible) Akamai and (inaudible) of the world.

19              And of course at MP3.com not a whole lot to do  
20      with patents, more similar to Yahoo! there. Although if  
21      we do drift into copyrights I'd have some interesting  
22      experience in that world.

23              MR. BARNETT: Thanks. Next we have Paul  
24      Misener. He is Amazon.com's Vice President for Global  
25      Public Policy. Formerly a partner and the Chairman of

1 the E-commerce and Internet practice at the law firm of  
2 Wiley, Rein and Fielding, Mr. Misener also served as  
3 Senior Legal Advisor and Chief of Staff to a Commissioner  
4 of the Federal Communications Commission.

5 Prior to his federal service, Paul was Intel  
6 Corporation's manager of telecommunications and computer  
7 technology policy, where he co-founded and led the  
8 computer industry's Internet Access Coalition.

9 Paul.

10 MR. MISENER: Thanks, Mike. For those of you  
11 who don't know, Amazon.com is the Seattle-based  
12 profit-making juggernaut. We are the holder of 22  
13 patents, 2 of which are relatively famous, or infamous  
14 depending on your point of view, and hopefully we'll be  
15 able to talk about those.

16 MR. BARNETT: Great. Thanks, Paul. Next  
17 we have David Mowery. David Mowery is a Professor of  
18 Business Administration here at Berkeley and the Director  
19 of the Haas Ph.D. program. His research interests focus  
20 on technological change, international trade, United  
21 States technology policy and the relationship between  
22 public policies and the private sector.

23 David.

24 PROF. MOWERY: Thank you. I'm obviously not  
25 presenting a real world but an economic perspective here

1       today. I guess what I will probably speak to are some  
2       earlier work I've done on the growth of the U.S. and  
3       international software industries, and then in particular  
4       a paper that I and a student here, Stuart Graham, did on  
5       overall trends in software patenting and copyright which  
6       was done for the National Academy's panel on intellectual  
7       property rights that Mr. Pooley sits on. Thank you.

8               Oh, let me just make one other note.

9       Unfortunately, I have to leave shortly before noon  
10      because of a teaching schedule conflict, so don't read  
11      anything into my hasty departure.

12             MR. BARNETT: Finally, we have Brad Friedman.  
13      Brad is the Director of Intellectual Property at Cadence  
14      Design Systems, Incorporated, a global electronics design  
15      automation company.

16             Before joining Cadence, Brad worked as Senior  
17      Intellectual Property Counsel at Varian Associates and  
18      Varian Medical Systems in Palo Alto. Before moving  
19      in-house, Brad practiced law with the patent litigation  
20      firm Fish and Neave.

21             He is a member of the Licensing Executive  
22      Society, the Silicon Valley Intellectual Property Law  
23      Association, the intellectual property section of the  
24      California Bar Association, and the American Corporate  
25      Counsel Association.

1 Brad.

2 MR. FRIEDMAN: Hi, good morning. Cadence is an  
3 interesting company, fairly unique on this panel. Our  
4 industry is the electronic design automation industry.  
5 We develop software tools that we sell to others who  
6 design semiconductor chips or smart electronics like cell  
7 phones.

8 Cadence's patent portfolio has grown through  
9 acquisition more than by its own internal innovation,  
10 and it's not an uncommon thing to do within the EDA  
11 industry.

12 I come to Cadence from a unique perspective as  
13 well. My background, as you heard, was patent  
14 litigation, focusing in medical devices, then moving  
15 in-house working in imbedded software, semiconductor and  
16 now finally in electronics.

17 I'm looking forward to providing the view of  
18 the world's largest supplier of electronic device  
19 software in talking about how our patent policy affects  
20 this particular branch of software. Thank you.

21 MR. BARNETT: Thanks, Brad. Now we're going to  
22 begin with the introductory presentations. I think we're  
23 going to begin with Bob Kohn.

24 MR. KOHN: What I'd like to share with you are  
25 some of my thoughts, I guess really to set the tone for

1 the morning. I think that means to upset as many panel  
2 members as possible to goad them into controversial  
3 discussion, but I'd like to say something about  
4 intellectual property protection in general in connection  
5 with patents, something about software patents in  
6 particular, and then something about the system that  
7 we're living with.

8 As everyone knows, we have intellectual  
9 property protection, whether it's copyrights or patents,  
10 so that there isn't an underproduction of goods. I mean,  
11 these are public goods once they're created, and if  
12 everyone else can use them without compensating the  
13 author, it may not be created to begin with. So clearly,  
14 intellectual property protection is needed in order to  
15 have an efficient number of goods or ideas or whatever  
16 products are produced.

17 But there is a problem that with too much  
18 protection you're going to have the same problem as too  
19 little protection. That is, you're going to have too few  
20 goods produced, especially in the area of complimentary  
21 products such as applications working with operating  
22 systems or carburetors working with other parts of cars.  
23 So when you have too much protection, there's a danger  
24 that you're going to have inefficient production of  
25 goods, and the challenge that legislatures have always is



1 defining the scope of intellectual property protection.

2 Now, with that background in mind, let's think  
3 about software patents or patents that involve computer  
4 programs. And the computer program, of course, the  
5 source code, et cetera, is copyrightable. It is  
6 protected by a large body of important intellectual  
7 property protection, but unlike a lot of other areas like  
8 a carburetor or a drug or a particular process for  
9 building something where you can get a patent, or an  
10 airplane, there is generally a specific thing this patent  
11 protects, this process.

12 It protects this product, and if someone is  
13 infringing your product, it's the whole product. And if  
14 you didn't have the protection you may not have had that  
15 innovation, you may not have built that product to begin  
16 with.

17 This is a little bit different from software in  
18 the sense that, remember, the software code is already  
19 protected by copyright. And you can also treat a lot of  
20 your ideas as secrets, you can hide the source code  
21 behind object codes and stuff. But in a piece of  
22 software, a large complex piece of software, there are  
23 potentially hundreds of thousands of patentable ideas  
24 embodied in that software, all right? So that leads to a  
25 problem of what marginal benefit is there to a particular

1 patent for a particular part of a piece of software code  
2 that is already protected by intellectual property?

3 Okay.

4 So I would argue or at least put out that in  
5 the software area there's a real potential for  
6 overprotection of what's going on in a piece of software.  
7 It's already protected by copyright. Now you're starting  
8 to add patents. What is the marginal benefit of this?

9 Now in the software area, just by experience I  
10 think most businessmen in our field will tell you that  
11 innovation generally is promoted by competition and not  
12 by the intellectual property protection. Of course,  
13 intellectual property protection is important, it's good.  
14 You need to be compensated for your software so that, you  
15 know, people can't just or shouldn't be able to just copy  
16 your software verbatim and not pay you for these  
17 additional copies. But most of the innovation comes from  
18 a competitor coming out with a new feature or something  
19 as opposed to, "Boy, I think we can get a patent on this  
20 and protect it for 17 years."

21 Most of the patents filed, I would argue, in  
22 our field, in the software area, are filed for defensive  
23 purposes so that if you get sued you'll have a war chest  
24 in order to defend yourself, which is precisely what  
25 Borland did over the period of time when I was General

1 Counsel. We filed patents on virtually everything. Any  
2 innovation in user interface design, flyover help,  
3 spreadsheet notebooks -- I mean, you name it, I had my  
4 guys file patent applications.

5 Those features weren't developed because we  
6 could get a patent on it. They were developed because we  
7 had to build a better product than our competitor. I was  
8 filing them because I knew I was going to get sued  
9 someday by some large competitor who had patents and I  
10 needed some way to defend ourselves against that lawsuit.

11 Now, finally, the point I want to make about  
12 the system is this. When you get involved in one of  
13 these cases, or you get involved even with a settlement  
14 discussion, and let's say you're legitimately infringing  
15 somebody else's patent in some small piece of process or  
16 something that you use in this ten million lines of  
17 software code for your product, potentially hundreds of  
18 thousands of patentable ideas in your code, somebody sues  
19 you and says, "You're using our process, you're using our  
20 this or that, our interface design. We want a ten  
21 percent royalty on your sales, we want ten percent of  
22 your gross."

23 I mean, you end up getting into these  
24 discussions, "Well, wait a minute, wait a minute. This  
25 is only one patent out of a hundred thousand, okay. You

1       can't ask us for ten percent of our product, it's just a  
2       minor feature. Yeah, we're infringing it."

3               "Well, if you don't pay us the money, we're  
4       going to sue you, and you know what the damages are in a  
5       patent case."

6               And then you get into this discussion where  
7       you're hiring guys like Carl Shapiro for \$500 an hour,  
8       and I've been through this at Borland. We won in the  
9       Supreme Court but we spent \$5 million in the damage phase  
10      of the case to determine what the potential damages were  
11      for infringing the copyright. It's no different in the  
12      patent field in determining the damages.

13              So, my argument is at the end of the day there  
14      needs to be a major overhaul of how damages are  
15      determined in these large intellectual property cases so  
16      that there's some reasonableness brought to the table so  
17      that when there's one little process or procedure in a  
18      code you don't get into this huge discussion of what are  
19      your profits and what are our lost profits. Some judge  
20      should be able to say, "Look, I'm going to set a  
21      reasonable royalty here. It should be one-hundredth of  
22      one-thousandth of a percent because this is what the  
23      value of your particular idea is to the whole piece of  
24      software."

25              That's what I have to say this morning, and I

1       hope that sparks some interest.

2               MR. BARNETT: Thank you very much, I have a  
3       feeling that it will. I think next we're going to hear  
4       from Brad Friedman.

5               MR. FRIEDMAN: I want to thank the Federal  
6       Trade Commission and the Antitrust Division of the  
7       Department of Justice for the opportunity to testify  
8       today. My name is Brad Friedman, I'm the Director of  
9       Intellectual Property at Cadence Design Systems, and  
10      we're located in San Jose. I first want to state that my  
11      testimony, and the views and opinions that I express here  
12      today, are solely my own, and do not in any way represent  
13      the opinion of Cadence or of any of its employees.

14              A little bit more about Cadence. It is the  
15      world's largest supplier of electronic design automation  
16      software and methodology services, both of which are used  
17      in the design of electronic space products such as  
18      semiconductors, computers, telecommunications equipment  
19      and consumer electronics. Cadence employs approximately  
20      5700 people worldwide and had revenues of approximately  
21      \$1.4 billion in 2001. The company is traded on the New  
22      York Stock Exchange under the symbol CDN.

23              I'm especially appreciative to participate on  
24      this particular panel to represent here a distinct and  
25      significant industry within the broad umbrella of

1 software, and that of software tools for product design.  
2 My perspective on today's issues may be somewhat unique  
3 on the panel.

4 For example, Cadence Design Systems sells its  
5 software not to the end user but to other businesses who  
6 in turn use those software tools to design  
7 electronics-based products that ultimately reach the end  
8 user. I'd like to speak to you from that perspective.

9 And personally, ideologically and  
10 philosophically, I'm a strong supporter of governmental  
11 incentives for innovation. I strongly believe that  
12 innovation has and does drive the progress of societies.  
13 With that in mind, I want to take a look at the current  
14 framework in the U.S. as it applies to software.

15 The beneficial role the patent system in its  
16 present form plays in Cadence's industry is not at all  
17 clear. Compared to the effect of competition in this  
18 industry, the current patent system has relatively little  
19 effect on the motivation to innovate.

20 The short time cycles of innovation, product  
21 development and market obsolescence in this industry are  
22 inadequately addressed by a patent system encumbered by a  
23 single process used for all patent applications. Other  
24 more timely means of information and knowledge transfer  
25 -- for example, publications, industry conventions and

1 conferences are seen as much more useful in advancing the  
2 state of the art. Business practices, in turn, have  
3 adapted to the current environment.

4 With respect to movements towards open source  
5 standards and interoperability, there's an increased  
6 participation in standard-setting bodies. Early on,  
7 standards organizations were largely based on patented  
8 technology owned by the founders of the standard body in  
9 an attempt to move the industry under their proprietary  
10 position.

11 More recently, forward thinking standards  
12 groups are premised on open source or open licensing  
13 schemes for the purpose of achieving interoperability as  
14 demanded by customers. There is the implicit expectation  
15 that anti-trust scrutiny will be appropriately loosened  
16 for these standards groups.

17 As I'm sure this committee is aware, there is a  
18 general animosity to pure software patents within and  
19 outside of the industry due to, one, the perceived  
20 allowance of what I'll diplomatically call overbroad  
21 patent claims, and two, the historically non-proprietary  
22 culture of the software engineering industry.

23 There's a concern that the USPTO lacks the  
24 necessary information about prior art in the field of  
25 information technology software and business methods to

1 make the needed decisions on the novelty and  
2 non-obviousness of patent claims, and also lacks the  
3 needed expertise and infrastructure. The uncertainty in  
4 the process generates skepticism, withdrawal from  
5 participation in the process, as well as optimism.

6 I also want to note it's perhaps telling of the  
7 role of patents in this industry, the relatively low  
8 volume of patent litigation in the design software space  
9 versus other industries. This holds true for software  
10 in general. The maintenance of a patent portfolio serves  
11 mainly as a means of keeping detente or for  
12 cross-licensing opportunities.

13 Given this scenario, can anything be done to  
14 achieve the policy goals of the patent system for the  
15 electronic design software industry?

16 In adhering more closely to the fundamental  
17 ideology of quid pro quo that underlies and should  
18 motivate the patent system, the Legislature might weigh  
19 in on this issue and consider more radical changes in our  
20 patent system than the courts are equipped to accomplish  
21 -- for example, differentiating between those inventions  
22 that add greater societal value from those whose benefit  
23 to society is minimal. This would be a daunting and  
24 improbable task.

25 Incorporating present day economic realities



1       into the value given to the patentee through a patent  
2       grant -- also a daunting task.

3               Acknowledging the enormous administrative  
4       burden, an ideal, perhaps utopian patent system would  
5       tailor the rights, scope and duration of a patent grant  
6       to the specific industry or knowledge base to which it  
7       belongs. In the electronics design industry, for  
8       example, we'll take a short-term, low-level protection in  
9       exchange for speed of issuance, while in another  
10      industry, biotech or pharma for example, long-term  
11      protection might be needed because the revenue stream is  
12      in a much more distant horizon.

13              On the judicial side, we might consider  
14      eliminating the presumption of a patent's validity,  
15      enabling more rigorous judicial oversight of the already  
16      small percentage of patents that end up being litigated.

17              In sum, largely because the current patent  
18      system is poorly fashioned for the software design tool  
19      industry, the industry has evolved to minimize the impact  
20      that patents have on competition and has relied on other  
21      more market-oriented drivers of innovation. I believe  
22      this is a missed opportunity for accelerating  
23      technological and economic growth in the industry.

24              Thank you again for this opportunity.

25              MR. BARNETT: Thank you. Next we have Josh

1 Kaplan.

2 MR. KAPLAN: Thanks, Mike. I'm going to give a  
3 slightly different perspective this morning because we  
4 are a smaller company.

5 Although we're a ten-year-old company, we're  
6 based in the music space, and I think unless you're one  
7 of the Big Five music labels it's been very difficult to  
8 actually make a business out of the music space over the  
9 past few years. I think everybody has seen what's  
10 happened with companies such as Napster as well as  
11 MP3.com, and a number of companies actually have just  
12 disappeared, either being acquired or have gone out of  
13 business in my landscape over the past few years.

14 One of the first things that we did when we  
15 were granted our second patent, which covered the  
16 Internet for music previewing and the tracking of user  
17 and the collecting of marketing information, is that  
18 instead of turning it over to our law firm I decided,  
19 well, I'll write a nice, non-threatening letter to a  
20 number of companies that we felt were infringing on our  
21 claims. And I can tell you that out of the 30 or 40  
22 letters that we sent out, we may have received 1 or 2  
23 responses.

24 Typically the response went something like  
25 this: "Meritless patent. We don't believe we infringe,

1 but send us a claim chart if you think that we do  
2 infringe." And that process moved on for months and  
3 months and months.

4 So as a small company, the problem that we  
5 faced in the Internet is that while we started in 1990  
6 and we have raised roughly \$30 million over 12 years to  
7 build this business, the issue in our space is that once  
8 something can be broken down and digitized, there really  
9 is no competition. And within the Internet space what  
10 you've had over the past 4 or 5 years are companies that  
11 have gone out, raised massive amounts of capital either  
12 through private placements or IPO's, and they have had  
13 very little perception towards profitability and it's  
14 been to go out and do a land grab.

15 And what's happened there is that people would  
16 wholesale just simply go out and replicate your business  
17 within a very short period of time, while it took us  
18 three or four hundred thousand manhours to encode  
19 hundreds of thousands of albums.

20 And we started this in 1990. You can imagine  
21 the change in technology between 1990 and 1999 where what  
22 we did by hand and having people sit there and listen to  
23 music and encode a sample and pick out the right point  
24 was now very easy for somebody simply to develop a  
25 system, drop the needle and build something just like we

1 had in a matter of six months and then give it away for  
2 free.

3 So, while I've heard some of my colleagues say,  
4 you know, we only have three patents and we have  
5 \$150 billion market cap, the reality in our space is that  
6 it's very simple for somebody to replicate your process,  
7 go out there and give it away and really destroy the  
8 market value of what you have, and so from our position  
9 we really had no choice but to assert our patents and try  
10 to defend them.

11 Which brings me to a funny story. We were  
12 actually in Federal court on Friday, another summary  
13 judgment motion, and I think we've gone through four or  
14 five of them at this point and we've spent, just to let  
15 you know, it's a small company, probably \$3 million and  
16 we've gone through two law firms.

17 We had to be very creative as a young firm.  
18 The first law firm we brought on actually took an equity  
19 position in the royalty payout of the company, which  
20 probably allowed us actually to file our initial lawsuits  
21 and stake our claim in this space.

22 Roughly a year and a half later we were able to  
23 find a partner in the music industry that felt that they  
24 could leverage our patents, and so they decided they  
25 would help fund the litigation moving forward, so it gave

1       us two things. It gave us a deep pocketed investor and  
2       it also gave us somebody we felt could become a master  
3       licensee of the patents should they, you know, continue  
4       to hold their validity and then go out and license the  
5       music industry.

6               So Friday we were sitting in court. We were  
7       the only case on calendar, but there was a motion to the  
8       judge that they had somebody else that had to come in.  
9       And actually there was a man who approached in shackles,  
10      he was apparently a bank robber who had seven counts of  
11      robbery against him. And of course we had to sit there  
12      for an hour and wait for our summary judgment motion to  
13      be heard.

14             And I found it interesting as I sat there --  
15      again, young company having to put up a lot of money to  
16      defend our patents -- that here you've got somebody with  
17      a high school education, but yet he had the presumption  
18      of innocence and is given clothing, shelter, food and  
19      counsel all free of charge.

20             And I had to juxtapose this to a small company  
21      like Intouch. It's a 12-year-old company, really not  
22      guilty of anything unless you include filing for software  
23      patents, which puts you as a bane of the industry. We  
24      had two presumed valid patents, yet the perception is  
25      that as a small company asserting patents that you are

1 guilty before proven innocent. So from our perspective  
2 when you look at civil or criminal proceedings versus  
3 what we have to go through, it just seems like  
4 something's been turned upside-down.

5 If we were, for example, treated like the bank  
6 robber, we'd be potentially given an attorney, have the  
7 presumption of innocence, guaranteed the right to a  
8 speedy trial, and yet we've gone through litigation now  
9 for almost three years. We have to face dozens of  
10 summary judgment motions that are really there  
11 specifically to try to invalidate your patent versus  
12 companies trying to legitimately take a license from you.

13 So why do I bring this all up? One of the  
14 things that Mike and I discussed, he said, "Well, what  
15 would you like to see happen through these hearings?"

16 I think there's a palpable perception problem  
17 with those companies that own software patents that are  
18 issued through the PTO. The one perception is that the  
19 Patent Office doesn't have the resources to evaluate and  
20 make a determination as to whether these patents are  
21 valid or not, and the other perception is that patents  
22 are handed out, you know, really like jelly beans.

23 And I can tell you from our perspective it took  
24 us almost eight years to get our two patents, and our  
25 file wrapper on the second patent is probably nine inches

1 thick, so clearly there was quite a bit of scrutiny to go  
2 through and get our patents. We probably have fifty to  
3 sixty citings between the two patents, so clearly we went  
4 out and we did our homework.

5 But from everything that you read in the press,  
6 every time we approach somebody to take a license or  
7 negotiate a license, the feedback was always, "You have a  
8 software patent. We'll invalidate it in court. It  
9 probably doesn't have any merit and we'll fight you on  
10 this." And I would say that that happened 95 percent of  
11 the time.

12 The ones that didn't simply looked at us as a  
13 nuisance case where they looked at taking a license  
14 relative to what they had to spend to defend us. In  
15 other words, as soon as we sue somebody you can look at  
16 an instant \$100,000 retainer that they would have to pay.  
17 So from our perspective, that was the gating factor when  
18 we looked at trying to license to companies.

19 So one of the things I thought about was, well,  
20 how can the PTO work to change this perspective? And  
21 again, these are longer-term concepts, but I think that  
22 the Patent Office has a perception problem. I don't  
23 think it's any different than the NRA has. The  
24 difference is they have Charlton Heston as a spokesman  
25 and everybody feels warm and fuzzy about going out and

1 getting a gun.

2 Maybe the Patent Office needs to resurrect an  
3 Abe Lincoln or an Edison to be a spokesman so that they  
4 champion the software patents and all patents and the  
5 innovators and not make it look like we are, I think the  
6 term one of my colleagues just used here, trying to  
7 extract rents. And that tends to be the perspective of  
8 most people, that we're simply here as a fulcrum to try  
9 to squeeze something out of the legitimate business.

10 The other thing I think we'd like to see is  
11 whether there's some way that the PTO in conjunction with  
12 another arm of the government, whether it's the Small  
13 Business Administration, could assist small companies in  
14 defending their patents.

15 Now, I brought this up to Greg Aharonian, who  
16 most of you know from PATNEWS. He laughed and said why  
17 would you ever want the government to help you defend  
18 your patents? That would be one of the worst things you  
19 could do.

20 But I think it's unlikely that most companies  
21 can be that innovative, find companies or attorneys to  
22 take an equity position and pony up \$2 to \$3 million and  
23 spend two to three years of management time to defend the  
24 patent. So if there were some mechanism for funding the  
25 litigation of a small company, we think that that would



1       potentially be a deterrent from people to simply take you  
2       on in litigation versus sitting down and negotiating some  
3       type of reasonable settlement.

4               So, I think at the end of the day we're not  
5       looking for free clothing and shelter and three meals a  
6       day, but we are looking for a fair shake in an industry  
7       where you're a small company going up against very large  
8       corporations, a number of whom are sitting around this  
9       table that we've actually met in court and gone through  
10      the process with.

11             Thank you.

12             MR. BARNETT: Thank you. Now we're going to  
13      hear from David Mowerypanel.

14             PROF. MOWERY: Thank you. I think I'll try to  
15      preserve the PowerPoint-free nature of the discussion so  
16      far and I'm just going to summarize some of the findings  
17      in this paper that we did for the National Academy of  
18      Sciences panel, which is a paper that I believe will be  
19      posted on the website for the Board on Science,  
20      Technology and Economic Policy, which is a wholly-owned  
21      subsidiary of the National Academy of Sciences, and you  
22      should be able to find it through their website. It was  
23      a paper co-authored with Stuart Graham, as I said.

24             I began life actually before I came to the  
25      business school as an economic historian, and I think

1       there is some advantage in adopting a historical  
2       perspective to some of these issues, because the software  
3       industry in particular has been around for a number of  
4       years, number of decades, and what we're really looking  
5       at in the issues created by growing formal protection of  
6       intellectual property in this industry is really a  
7       confluence of developments, some of which are related to  
8       policy, the strengthening of intellectual property rights  
9       generally in the U.S. economy that's taken place over the  
10      last 20 years or so, but also technological change and  
11      the growth of new markets that have greatly increased the  
12      importance of formal intellectual property protection.

13               And the most recent, if you will, or a recent  
14      very important technological development influencing this  
15      industry, the Internet, is having effects the ultimate  
16      dimensions of which I think we don't fully know at  
17      present, but you can think of at least three  
18      contradictory, to some extent, effects of the Internet on  
19      the software industry and the role of intellectual  
20      property protection.

21               The first is the role of the Internet in making  
22      possible the rise of open source software itself.  
23      Shareware has been around in the software industry for a  
24      very long time, but open source software really is  
25      shareware squared in some sense, and the Internet makes

1       feasible the maintenance of a unified source code, an  
2       open source that previously I think was very difficult to  
3       do. So that's one challenge in some sense to formal  
4       protection created by the Internet.

5               The second is the role of the Internet in  
6       facilitating low cost distribution of software, which  
7       should facilitate entry by new firms in some cases and  
8       the growth and intensification of competition.

9               A third and, again, somewhat offsetting effect  
10      of the Internet on software development and intellectual  
11      property protection is the role of the Internet in  
12      creating a space for patented business methods. Most of  
13      the rise in business method patenting in this area has  
14      been facilitated by the growth of the Internet as a venue  
15      for exploiting business methods and patented business  
16      methods in particular.

17              Now let me talk very quickly about some of the  
18      trends that our analysis of patenting in the software  
19      industry seems to highlight.

20              The first issue I think that comes up here is  
21      how we define a software patent in a way that is  
22      meaningful for supporting some kind of analysis of trends  
23      over time. That's not a trivial exercise, and so what my  
24      student and I have done is defined software patents in a  
25      way that tends to overweight packaged software patents

1       within our definition.

2               So we're looking at a definition of software  
3       patents that tends to emphasize packaged software patents  
4       much more heavily than something like embedded software,  
5       which in fact is much less frequently the focus of formal  
6       intellectual property protection, and I think there are  
7       four or five interesting findings, if you will, that are  
8       highly preliminary that come out of this.

9               The first is that by our definition, software  
10      patenting as a share of overall patenting in the United  
11      States certainly has increased during the last 15 years.  
12      The share has grown to nearly 3 percent of overall  
13      patents, which is a substantial growth from its level 15  
14      years ago.

15              Secondly is that within software patenting,  
16      large packaged software specialist firms have increased  
17      their share of overall patenting. At the same time,  
18      however, and a very important set of players to keep in  
19      mind when one is analyzing trends in software patenting,  
20      is the fact that large electronic systems firms,  
21      Motorola, IBM, Intel and others, have increased their  
22      share of software patenting by our definition much more  
23      significantly so that they are accounting now for more  
24      than 15 percent of what we define as software patents.

25              If we look at patents per R&D dollar -- some

1 sort of an intensity measure, how many patents are you  
2 obtaining for each R&D dollar that you're investing?  
3 This is obviously a challenge because we want to try to  
4 look at software-related R&D investment -- nevertheless,  
5 what we observed between roughly '87 and '97, and I think  
6 this is consistent with Mr. Kohn's argument, is that  
7 large packaged software firms including Borland have  
8 quite significantly increased their patenting per R&D  
9 dollar during this period of time, so their patenting is  
10 much more intensive, relative to their R&D investment.

11 At the same time, however, if one compares the  
12 patent intensity, if you will, patents per R&D dollar of  
13 IBM, who have reported their software-related R&D  
14 investment, and Microsoft, who we largely treat as a  
15 software specialist, IBM remains a much more intensive  
16 patentor of software compared even to Microsoft who has  
17 dramatically increased their patent propensity during the  
18 1990's. So if we compare IBM over the 1990's, they begin  
19 by obtaining nearly 20 times as many patents per R&D  
20 investment dollar, keeping in mind that we're looking at  
21 software-related R&D investment, 20 times as many patents  
22 as Microsoft.

23 This gap narrows. IBM's R&D dollars per patent  
24 decline somewhat, Microsoft's increase dramatically.  
25 Nevertheless, it's clear that a great deal of the

1       increase in patenting, perhaps much of which is motivated  
2       by defensive motives, is going on in the diversified  
3       systems firms in addition to an increase in the  
4       specialist --

5                               (Tape One, Side B)

6               PROF. MOWERY:  -- two other points.

7               The quality issue in software patenting has  
8       been raised.  And again, it's very difficult to know how  
9       to measure the quality of software patents.  What we have  
10      done is define a very crude measure, a somewhat  
11      controversial measure, that looks at how frequently  
12      software patents are cited, the patents assigned to a  
13      given firm, how frequently those are cited relative to  
14      all software patents.  So if your patent is being cited  
15      in subsequent inventions relatively intensively, that is  
16      one indication that this is a more widely referred to,  
17      perhaps a more important, patent.

18              And what we observe in looking at patents  
19      assigned to these large packaged software firms is that  
20      there is no evidence during the '87 through '97 decade of  
21      a significant deterioration in the intensity with which  
22      these patents are cited.  So that's one very imperfect  
23      measure of quality.  We don't see a significant  
24      deterioration over this period of time in the citation  
25      intensity, which at least could be interpreted as not

1 representing a significant decline in quality.

2 Finally, I think that our exploration of this  
3 issue really underscores the extent to which our  
4 indicators of what is going on here are very imperfect.  
5 I'm going to really put on my academic hat now. This is  
6 a very economically important space and we have extremely  
7 imperfect and incomplete data.

8 We don't really even know. We don't have good  
9 robust definitions that would allow us to look at how  
10 much software patenting has been going on over the past  
11 30 to 40 years, because this field has been so dynamic  
12 and because the categories that we are able to use  
13 themselves are changing very rapidly.

14 So I think that as policy makers begin to  
15 consider these issues more seriously and deliberatively,  
16 one very important issue is trying to develop ways of  
17 getting our arms around measuring it as well as dealing  
18 with the problems of addressing the economic and  
19 competitive challenges created by it.

20 Thank you.

21 MR. BARNETT: Thank you, David.

22 MS. RODRIGUEZ: I was wondering if you could  
23 have everybody turn off their cell phones. It's very  
24 distracting, and he was going very, very fast. I was  
25 wondering --

1           MR. BARNETT: Apparently, if we could ask  
2 everyone to turn off their cell phones as well as if  
3 people could be conscious of somewhat speaking at a  
4 moderated pace as we are providing facilities for the  
5 hearing impaired.

6           That said, and with these ideas in mind, I  
7 would like to begin with a less structured portion of the  
8 session. Let me start with some of the rules of the  
9 game.

10           As we begin these discussions, if you would  
11 like to contribute or have something to say, just turn  
12 your name plate on its side and that way nobody has to  
13 waive hands around or anything like that and then we can  
14 get to everybody in turn.

15           Given the statements from the people who have  
16 given presentations, I think we'd be interested in  
17 hearing from some of the panelists who did not give  
18 presentations, and it looks like Jordan Greenhall has  
19 jumped into the fray already.

20           MR. GREENHALL: Yeah, this is great. We do  
21 bring a different perspective from the other companies  
22 that have spoken today. Let me start off by issuing a  
23 few mea culpas because I'm about to agree with Mr. Kohn  
24 and Mr. Friedman. First off --

25           MS. DeSANTI: Hearing is difficult. Could you



1 speak into the microphone a little more?

2 MR. GREENHALL: Yeah, I apologize.

3 MS. DeSANTI: Thank you.

4 MR. GREENHALL: My previous company, INTERVU,  
5 made an egregious amount of money by virtue of its patent  
6 portfolio, and my current company, DivXNetworks, also  
7 stands to capitalize significantly on a patent portfolio,  
8 so I have a lot to benefit personally from the strong and  
9 vigorous enforcement of, specifically, software patents.

10 Second, we are a small company with very large  
11 competitors. I think it's fair to say that Microsoft  
12 would be considered our number one competitor on a global  
13 basis, something I'm reminded of probably ten times a  
14 day, and we do have, as I mentioned earlier, many patents  
15 filed.

16 Nonetheless, I would tend to agree with  
17 Mr. Kohn and Mr. Friedman about the state of patents and  
18 software, and I could just issue a couple of concerns  
19 that I have which I think are somewhat different from  
20 what we've heard so far today. I'll do that really by  
21 virtue of maybe throwing out a couple of concepts that we  
22 might want to use or that might have some interesting  
23 value.

24 The first of which is something that we  
25 internally call a patent farm. How does one identify a

1 patent farm? Simply divide the software engineers in a  
2 company by the number of lawyers in that company. These  
3 are organizations that have very intelligently determined  
4 that you can generate, again, hundreds of thousands of  
5 patents in software code that you've already paid to  
6 develop because you're developing a product, and if there  
7 is value in creating a spew of patents, most of which are  
8 defensive, although there is a uniquely offensive value  
9 to those patents as well, which I will categorize with a  
10 second concept that I call patent FUD.

11 Are we familiar with the concept of FUD?

12 MS. DeSANTI: I think it would be very helpful  
13 for the record if you could lay it out.

14 MR. GREENHALL: Great. Well, FUD is something  
15 that was invented probably 15 years ago, mostly by  
16 Microsoft, which stands for Fear, Uncertainty and Doubt.  
17 This is a concept where you issue press releases,  
18 announce strategic relationships about products that you  
19 have not yet developed that you soon will be developing  
20 and will destroy everybody else who wants to get into  
21 that marketplace, which of course causes smaller  
22 companies who are trying to get in that marketplace to  
23 find significant difficulty finding traction with  
24 customers who say, "Well, isn't Microsoft already  
25 developing this?"

1           Patent FUD is a unique strain of that  
2           particular virus that is more effective because now  
3           companies who have patent farms can say, "Well, not only  
4           am I developing that product, but I've also patented it,"  
5           which again, thinking about this from the concern of  
6           lucidity in the patent landscape, let me sort of put my  
7           first bullet point out.

8           My largest concern about the patent landscape  
9           is a lack of transparency. Patent farms and patent FUD  
10          specifically go towards that point.

11          As a small company, one of the biggest risks I  
12          face is uncertainty in the marketplace. I can minimize  
13          my risk by understanding my competitor's products very  
14          well, by understanding my products very well, by  
15          understanding what the consumers and customers want. But  
16          I've found in the past year that I really can't  
17          understand the patent landscape and that I'm sitting with  
18          a nuclear bomb on top of my products that could go off at  
19          any point and cause me to simply not have a business  
20          anymore.

21          Let me sort of anecdotally describe what I'm  
22          talking about here. I recently took one of my lead  
23          developers, a gentleman who's widely considered a leader  
24          in his field -- he sits on both the MPEG and the ITU  
25          committees, is deeply involved with the entire

1 intellectual property landscape around digital video --  
2 and asked him to evaluate a particular patent that we've  
3 been hearing about in the marketplace.

4 We did a quick search on the USPTO website,  
5 which by the way is very useful, and uncovered no less  
6 than 120 patents that claim to be within the general  
7 scope of this particular patent, which was widely cited.

8 The poor guy spent the better part of five days  
9 examining all these different patents and came back to me  
10 saying, "I haven't the slightest idea whether or not we  
11 infringe on these patents, and frankly, they all seem to  
12 infringe on one another."

13 The end result being that I have no idea  
14 whether my product infringes on upwards of 120 different  
15 patents, all of which are held by large companies who  
16 could sue me without thinking about it.

17 The end result, much like Borland, I have now  
18 issued a directive that we reallocate roughly 20 to 35  
19 percent of our developer's resources and sign on two  
20 separate law firms to increase our patent portfolio to be  
21 able to engage in the patent spew conflict. I think the  
22 concept here would be called saber rattling. I need to  
23 be able to say, "Yeah, I've got that patented too, so go  
24 away and leave me alone."

25 That assumes, of course, I don't get a sit-down

1 strike from my engineers, who can't understand the logic  
2 behind this. And if you guys have ever dealt with  
3 engineers, the lack of logic is a complete conclusion.

4 So really the thought process that I've gone  
5 through -- and this is all, you know, very concrete  
6 literally in my life in the past year -- is that there's  
7 a bizarre inequity between the cost to create patents in  
8 software and the value to be generated by purely  
9 defensive patents that have no sort of innovative value  
10 in and of themselves. They weren't, as we say, created  
11 to innovate but simply are riding on the backs of  
12 innovation to create a zone of obscurity where other  
13 companies really don't know what the patent landscape is.

14 And also, let's not forget the incredible  
15 windfall that can befall a company if one is able to  
16 establish both a patent and a standard based on that  
17 patent. We could call this the Qualcomm model, which as  
18 I understand it, means a secure patent, the establishment  
19 of that patent as the international standard for some  
20 particular piece of large-scale technology, and then sit  
21 back and make billions of dollars.

22 The time to develop a patent in my company, for  
23 example, we could probably do twenty to a hundred patents  
24 in a year easily, spend about a million dollars to  
25 develop those patents from a technical perspective, that

1       doesn't count the legal time, which I assume would be  
2       three to four or five times that, and frankly, generate  
3       billions of dollars off of that intellectual property  
4       portfolio if we're able to establish the three cherries  
5       of getting that patent into an international standard.

6               I find that to be odd, that somebody could  
7       make billions off of that, somewhat of an interesting,  
8       almost lethal possibility, but standing back and thinking  
9       about it from a public policy perspective, that  
10      disproportionate ratio between the investment risk that I  
11      take and the potential upside windfall that I could  
12      generate is problematic.

13             MR. BARNETT:  Thanks, Jordan.  Jim?

14             MR. POOLEY:  First of all, I want to make it  
15      clear that when I'm giving my remarks they're on behalf  
16      of myself individually and not my firm, my clients or the  
17      organizations I'm affiliated with.

18             COMMISSIONER THOMPSON:  Hey, Tom, there's  
19      someone else who has to say this too.

20             MR. BARNETT:  Jim, could you speak up?

21             MR. POOLEY:  Yeah.  One of the things I want to  
22      focus on here is the distinction between the quality, as  
23      it's been referred to, of the patents, software and  
24      Internet patents as they emerge from the Patent Office,  
25      however one might try to define that, and the quality

1 of the process by which we resolve disputes about those  
2 patents.

3 I think it's not only a feckless task to try to  
4 understand whether something has quality in the abstract  
5 when it comes out, but that's not really where the action  
6 is in terms of the impact on the marketplace as I have  
7 seen it. It's the litigation process that animates the  
8 decision of any given company either to take on a license  
9 or to, perhaps worse and in a way that we can't measure,  
10 back away from a product or a part of the marketplace  
11 that they would otherwise compete in.

12 It's in part because of the issue that's been  
13 referred to already about uncertainty. That's one aspect  
14 of it. There is great uncertainty in the process of  
15 resolving disputes when one receives a notice of the sort  
16 that Josh was sending out. And presuming for a moment  
17 that there is a rational basis for challenging the  
18 validity of the patent or challenging the assertion that  
19 one infringes, what you face is a highly, highly  
20 uncertain process.

21 It's made uncertain in part because ultimately  
22 we know the decision on things like infringement and the  
23 scope and content of the prior art will be decided by a  
24 lay jury, and we think ahead to that when we look at what  
25 our exposure is.

1           We consider the effect of the doctrine of  
2           equivalents, which is often used, especially in the  
3           Internet's space, to make older patents that were  
4           intended obviously in their first incarnation to apply to  
5           an earlier technological environment, all of a sudden to  
6           become applicable broadly to the Internet space. And so  
7           the issue of breadth is not in the initial issuance of  
8           the patent, but the way in which it is treated in the  
9           litigation process and allowed sometimes to expand  
10          through the doctrine of equivalents.

11          The process is made more uncertain because of  
12          entrants, and usually in my experience in the software  
13          industry we have a kind of business that's easy to enter,  
14          but where you enter with sometimes an overwhelming sense  
15          of dread because you don't know how many pieces of IP you  
16          will need in order to operate.

17          It is opaque, you can't get there, and in fact  
18          the system discourages you from looking very hard because  
19          your lawyers may advise you that simply by virtue of  
20          poking around to find out what patents exist you expose  
21          yourself to wilfulness claims which can triple the amount  
22          of damages and exposure to attorney's fees.

23          And there's also the problem that Bob Kohn has  
24          referred to of, you know, we don't know how much we're  
25          going to have to pay. And it can seem overwhelming



1 sometimes when someone knocks on your door and asks for  
2 five percent of your revenue and you negotiate that, end  
3 up paying three, and then surprise, there's someone else  
4 who asks for another five or ten percent.

5 Because their particular claim is measured by  
6 what would happen in the litigation process, not by a  
7 sane, well-informed view of all of the IP that is out  
8 there that might be necessary and that would be  
9 appropriate to reward the producers of that IP, we end up  
10 in something like *The Producers* where there's more than a  
11 hundred points in the percentage scheme, and that just  
12 eats up profit margins and discourages people from  
13 pursuing business.

14 I think one of the process issues that we face,  
15 particularly in the Internet and software field, is the  
16 difficulty of challenging validity. One of the issues  
17 that's already been cited here is the lack of a reliable  
18 source of prior art. Unlike the predictable arts, it is  
19 very hard to find relevant information unless you have a  
20 very large bankroll and a lot of patience and a lot of  
21 time to do detective work and come up with the kinds of  
22 things that would when laid in front of a court indicate  
23 that the patent really was obvious.

24 The standard of proof is another particular  
25 problem. What is clear and convincing evidence? When

1       you actually put that notion in front of a jury, their  
2       eyes glaze over. It really reinforces the notion that  
3       the patent with the gold seal and the ribbon on it is  
4       something that they as lay persons are not really  
5       qualified to look behind and question because someone  
6       with training has already checked this out at the Patent  
7       Office.

8               When you combine that, especially in the  
9       software environment where, as Mr. Kohn has noted, a  
10      piece of software that has perhaps hundreds of thousands  
11      of lines of code can be stopped in its tracks through a  
12      patent claim that covers one routine in that product,  
13      when you deal with issues of validity and you're trying  
14      to challenge it, you can be overwhelmed with a story of  
15      commercial success -- one of the so-called secondary  
16      factors that actually have come to be primary in  
17      litigation over this issue and required to be presented  
18      to the jury -- you're overwhelmed with this story that  
19      the product itself of the plaintiff was successful in the  
20      marketplace, and therefore the market has accepted the  
21      patented feature.

22              Well, the patented feature may be buried deeply  
23      inside the product, but it is very difficult for a jury  
24      to understand when presented with this overwhelming story  
25      of award winning products that you really have to push

1 away everything that isn't the patented feature and try  
2 to judge whether the patentee has really demonstrated the  
3 existence of relevant commercial success.

4 When you pile all of that on with the actual  
5 out-of-pocket costs of patent litigation, the management  
6 diversion and so on, what you end up with is what can be  
7 sometimes an overwhelming notion when someone presents  
8 this patent to you.

9 And so I think that some of the focus needs to  
10 be brought to bear, the focus of this inquiry, not quite  
11 so much on the process of generating the patents or the  
12 standards and so on.

13 And frankly, from my own observation I think  
14 the Patent Office is doing a pretty good job in applying  
15 the rules that ought to apply for determining whether  
16 something deserves to be a patent. But on the process of  
17 resolving disputes, because the litigation after all is  
18 only accelerated negotiation, and if we were better able  
19 to control the cost and provide a little more certainty,  
20 then I think we'd bring a little more rationality to the  
21 process of working out licensing and lessening the  
22 anti-competitive threat that sometimes exists with some  
23 of these patents.

24 MR. BARNETT: Thanks, Jim. A couple of the  
25 panelists have mentioned notions of predictability and

1 patent FUD and backing away from R&D, which brings to  
2 mind to me just how does the issuance of a patent or how  
3 do patents, whether it's patents owned by yourself or  
4 patents owned by your competitors, end up affecting the  
5 direction of your R&D efforts? I might direct this one  
6 to Yar.

7 MR. CHAIKOVSKY: Well, in terms of what we've  
8 spoken about today with respect to the effect on our R&D  
9 efforts, I can talk about both. And again I'll put the  
10 same caveat; these are my opinions and not necessarily  
11 the opinions of Zaplet where I presently work or Yahoo!  
12 prior to that.

13 But as we've seen with respect to the patents  
14 that are issuing and focusing on packaged software in  
15 particular because that happens to be the space that  
16 we're in and it happens to be the space where you see  
17 increased patent allowance from the Patent Office, I  
18 can't say that there's, as opposed to coming from Mr.  
19 Greenhall at DivXNetworks, a specific amount where I said  
20 30 or 40 percent of R&D is set aside for patent  
21 development. That doesn't occur at Zaplet or Enterprise  
22 Software Development, although we recognize that there is  
23 a focus, that our significant competitors are also  
24 Microsoft, as any packaged software company is probably  
25 going to say Microsoft is a significant competitor. IBM

1 is a significant competitor with Lotus in our space,  
2 which is collaborative business process management. So  
3 we recognize that there are these significant entities.

4 And also, as Professor Mowery mentioned, we  
5 also have the entities such as Motorola, Intel, et  
6 cetera, that are patenting software and even Internet  
7 techniques that aren't necessarily in their main line of  
8 business, but they happen to have a 'patent farm' or what  
9 have you and they decide to file for patents that might  
10 not necessarily be where their R&D lies.

11 So with respect to our company, the reality is,  
12 and I was going to touch on the point that, again, it's  
13 the competition that promotes the innovation. We're  
14 taking a look at what competitors have out in the market  
15 -- What is Microsoft developing? How is Sharepoint  
16 developing? How is Lotus developing? How is Groove  
17 developing a product with Ray Ozzie, the ex-developer  
18 from Lotus? How is he going out there and developing a  
19 product and taking a look at that product? -- and that  
20 drives our R&D. At the same time, recognizing that  
21 because of the way the patent system is, and we'll use  
22 another infamous statement, MAD, Mutually Assured  
23 Destruction, and the ability for people to stockpile  
24 their patents.

25 I mean, the reason I was hired at Zaplet and

1       was brought to bear there by Alan Baratz, our CEO who  
2       used to be president of JavaSoft at Sun and came over  
3       from Yahoo!, was because of the fear of these larger  
4       competitors and not necessarily the fear of the smaller  
5       competitors, because the stockpiling or the MAD technique  
6       doesn't work against one of our colleagues who has a  
7       smaller company, necessarily.

8               A patent portfolio won't help me in that vein.  
9       It'll help me against the larger players so that whether  
10      my company, Zaplet, is successful on its own right or  
11      whether Zaplet eventually ends in some other liquidity  
12      event, whether that's an acquisition or a merger with  
13      some other company, the IP is of significant value to  
14      that company and particularly from a defensive  
15      perspective, so whether that company be BEA or some other  
16      company that decides to add us to their ap server, we  
17      look at it as, will we add value?

18              Yes, they're going to buy the code, they're  
19      going to look at our engineers, and they're also going to  
20      take a look at the IP and the IP is going to be a strong  
21      intrinsic value of the company as opposed to just having  
22      the code and letting someone else copy it without having  
23      the protection to some extent, as Mr. Kohn said, that  
24      Borland did. The reality is you have to have that IP in  
25      the software space to back up your packaged software. If

1       you don't have it, you're going to have problems.

2               But going back to R&D, I can't say that we've  
3       set aside engineers or spent specific dollars and said,  
4       "Okay, let's do this."   Yes, there is -- as a patent  
5       attorney I was hired to focus in on making sure that we  
6       do have our intellectual property covered.   As opposed to  
7       another panelist here, my argument would be that  
8       intellectual property is something that's useful if you  
9       have a product that is very useful in the market, a  
10      product that people are interested in.

11              In particular during the '95 to '99 time frame  
12      in this marketplace in this valley, well, you would have  
13      gotten a significant investment from a venture capital  
14      company such as Zaplet did.   Our company received over  
15      \$100 million in funding from Kleimer Perkins and it was  
16      because it had a great idea, they thought they had a  
17      great idea.   Other people followed through with that and  
18      came back and backed that up, whether it was Robby  
19      Stephens, Amerindo, Cisco, Novell, Oracle, they're all  
20      investors in Zaplet.   Why?   They thought the company had  
21      a great idea.

22              And it wasn't because we had a patent portfolio  
23      at the time, although that was one of the factors that  
24      the venture capitalists would look at, is this something  
25      that maybe can be protected through intellectual

1 property, as opposed to some other companies who try to  
2 establish a business and try to establish some type of  
3 business opportunity, and after going around for three,  
4 four, five years recognizing, "Hey, my business isn't  
5 working. Well, let's see what I can pull out of the bag  
6 and send at somebody, and if I've got something, it may  
7 not be the greatest patent in the world but it's the last  
8 thing I can do because my business is totally  
9 ineffective."

10 That's not what we do and that's not the  
11 perspective we take. I've seen that happen many times so  
12 now I'll cut back to my Yahoo! experience.

13 Yahoo! is a perfect example of a company that  
14 came about in 1995, went public in March of '96, didn't  
15 have its first patent issued until 1997, didn't have a  
16 patent attorney until 1999, and was able to achieve a  
17 market capitalization in December of 1999 of, as was  
18 previously mentioned, over \$120 billion. At that time it  
19 had three issued patents.

20 Patents had nothing to do with the interest in  
21 the company, consumer use of the product of the company  
22 and the Internet space. There was no focus of an R&D  
23 effort with respect to patents.

24 As I said, the first patent attorney was hired  
25 in '99, the company had been public since March of '96,



1       backed by Sequoia and other venture capitalists in the  
2       community here. Why? Because it was a great idea. Was  
3       there competition out there? Sure, there was Excite,  
4       there was Lycos, there was AOL, there was significant  
5       competition. In fact, Excite and Lycos went public in  
6       the same month that Yahoo! went public.

7               But did intellectual property matter? Did the  
8       General Counsel or the CEO of Yahoo! sit there and say  
9       we've got to file patents and get patents to promote our  
10      products? No. And if you even looked at AOL with their  
11      acquisitions of Netscape and Compuserve over the years,  
12      they have a portfolio that's over 70 patents strong. So  
13      it wasn't a concern of the company.

14             Sure, eventually it became a concern. And why  
15      did it become a concern of the company? It became a  
16      concern of the company because you did have entities,  
17      such as Professor Mowery mentioned, coming at us with  
18      large portfolios, upwards of ten patents at a time, and  
19      Yahoo! made the realization, perhaps a little late and a  
20      little naive -- on the other hand, the company was doing  
21      quite well without it -- that they had to get into this  
22      ball game also to basically not pay people percentage  
23      royalties on the company's revenues going forward. So  
24      Yahoo! obviously decided that it was time to hire one  
25      patent attorney, and I was it, with no other support

1       other than that.

2               You know, at the same time I can say we  
3       received letters from smaller companies such as Intouch.  
4       And a patent portfolio is not going to really help me in  
5       that sense, because I can't really do anything. Building  
6       up a patent portfolio for defensive/MAD purposes is not  
7       going to help me against a small competitor. I'm not  
8       going to countersue him and try to get whatever dollars  
9       he has left that he may be spending on litigation at this  
10      point, so it's not going to help me at this point.

11             We had two significant litigations at Yahoo!,  
12      one was by a New Zealand woman who had a patent on  
13      universal shopping carts. You know, it cost us a lot of  
14      money to defend that lawsuit. It was a waste of legal  
15      time, it was a waste of our resources, it wasted some of  
16      our VP's and engineering and commerce time involved in  
17      the project. It ended up settling on terms that were  
18      favorable to Yahoo! with Yahoo! paying no amount of  
19      dollars of its own and settling the case.

20             The other case we had going was a Fantasy  
21      Football case that was brought by a plaintiff's  
22      contingency attorney with patented Fantasy Football  
23      on-line on the Internet.

24             Well, you know if you think about Fantasy  
25      Football, for those of you who have ever played Fantasy

1       Football where you pick the players on-line, well, people  
2       have been doing that since the '80s on paper, and to  
3       think that you can get a patent on that. And again, the  
4       quality of patents is sometimes good, but when you think  
5       you can get a patent on that on the Internet and its  
6       application onto a computer, it's troubling and it cost  
7       the company again a significant amount of dollars.  
8       Again, the end result being that time was spent.

9               Obviously the person here, perfect example on  
10      the Fantasy Football and the shopping cart examples,  
11      their business models weren't working. Some of them may  
12      have not even have had a business model. They end up  
13      getting patent agent firms or licensing firms, as we call  
14      them, not law firms. They sue on those patents.

15             They cost our companies a lot of dollars, and  
16      the end result is so far none of them have been  
17      victorious against the companies that I've been involved  
18      with. In fact, it just cost us a lot of dollars. We've  
19      never had to pay a cent; it's just cost a lot of legal  
20      fees and made attorneys like Mr. Pooley some money at  
21      their law firms in representing clients such as ours.

22             But going back to the point at hand with R&D.  
23      Again, a little bit different from the Internet  
24      perspective because of the, it's been spoken about, the  
25      antipathy, I'd say, towards software Internet patents

1 from the community here in Silicon Valley.

2 If you go to engineers in general they'll say,  
3 "That's patentable?" I mean, the reality is that's the  
4 general reaction from most engineers. They are  
5 traditional believers in the open source movement.

6 On the other hand, as you're protecting  
7 intellectual property for your company you're not going  
8 to necessarily dive into open source. You might get into  
9 some of it, but then you've got to worry about GPL and  
10 LGPL and worry about the issues that are involved there  
11 as you're selling packaged software and you don't want to  
12 have that type of open source wrapped into the new public  
13 license that's out there and getting that wrapped into  
14 your product, as I see here at Zaplet and the comments  
15 with respect to that. It does us no good because all of  
16 a sudden I've got to open up my code to everybody and it  
17 gets into issues as to what's tied into that open source  
18 code.

19 And I open up a whole new can of worms with  
20 open source issues, even though our engineers would love  
21 for everything to be open source. We're never going to  
22 make any dollars, competition is stifled.

23 And again, my main point and I'll finish with  
24 this is that it's really competition that spurs  
25 innovation. I haven't seen anyone look at the USPTO's

1 website and say, "Wow, I found these ten patents. I'm  
2 going to come up with a great idea." That just never  
3 happens.

4 I mean, the reality is we're looking at what  
5 are good business ideas. People in the valley here look  
6 for good business ideas. They back them up, they go  
7 forward. They're not looking at patents. The exclusion  
8 to that may be IBM who looks at their own portfolio and  
9 makes \$1.5 billion a year basically on revenues of their  
10 patents, at least they did in the year 2000.

11 Thanks.

12 MR. BARNETT: Josh, one of those comments  
13 seemed to have brought a -- Oh, okay. Let's go ahead and  
14 go to Paul. Paul's been waiting patiently.

15 MR. MISENER: I'd be happy to have Josh  
16 take this.

17 MR. BARNETT: Oh, that's okay, go ahead.

18 MR. MISENER: Well, I just hope it's obvious to  
19 everyone that these are not mutually exclusive business  
20 objectives. You need not sit down *a priori* and say,  
21 "Gee, we want to have a patent farm and we don't want to  
22 innovate and then get patents." Or you don't go the  
23 other way and say, "We're going to be so pure as to just  
24 want to innovate in response to competition that we won't  
25 actually ever use our patents in either an defensive or

1       offensive manner."

2               Let me suggest there's a third leg to this  
3       stool, and that is really focusing on what your basic  
4       business is and not thinking about the intellectual  
5       property as the objective but rather as the means to  
6       serve the ultimate business objective, which for example  
7       in Amazon.com's case is our focus on our customers and  
8       trying to provide them the best possible service that we  
9       can. In that way we developed some innovative solutions  
10      in the technical space and decided that there was  
11      potentially some intellectual property there and decided  
12      to and successfully patented several inventions.

13              I'd like to cycle back for a second, though, to  
14      what Jim was mentioning earlier. He had talked a lot  
15      about dispute resolution and said that there had been  
16      perhaps too much focus on the *a priori* grant, or the  
17      prior-to-grant patent quality issues. And perhaps there  
18      has been relatively too much attention focused on it, but  
19      still I think it's worthy of note here that -- well,  
20      perhaps a historical perspective is helpful.

21              About two years ago, yet another patent was  
22      issued to Amazon.com which created some controversy,  
23      especially among what we'll call the open source  
24      community who had been and remain big supporters of  
25      Amazon as a proposition and a company. And so as a

1 result, we kind of stood back and decided to really  
2 engage with the folks in the open source community,  
3 primarily with a fellow named Tim O'Reilly who, as you  
4 may know, is a publisher of an excellent set of computer  
5 books.

6 He and my boss and I met on several occasions  
7 to try to figure out, well, what's a good way to address  
8 this in a public policy sense? And we decided that three  
9 of us would actually go to Washington, D.C. and spend  
10 some of our lobbying capital on trying to get changes  
11 made to the patent system that reflected the differences  
12 between traditional patents and the newer, call them  
13 business method and/or software patents. And what the  
14 three of us went to Congress and actually proposed was  
15 that perhaps there's a better way of dealing with this  
16 particular subset of patents. Perhaps a shorter period  
17 of protection is appropriate.

18 As Jeff is want to say, a business method or  
19 software patent ought to be able to catch a lot of wind  
20 in three to five years and there's probably no need to  
21 protect that for twenty years, so in spite of the fact  
22 that we hold several of these patents, we actually  
23 lobbied for a reduced term on them.

24 We also suggested that for U.S. based patents,  
25 which as you may know, there is no pre-issuance comment

1 period allowed for U.S. based patents, perhaps at least  
2 in this area there ought to be a pre-issuance public  
3 comment period. That, tied with what has been discussed  
4 earlier, some sort of a prior art database, could be  
5 valuable to the USPTO.

6 And lastly, we have spent some of our capital  
7 trying to ensure that the USPTO is able to at least keep  
8 the funds that it raises. I'm not sure it's widely  
9 known, but the USPTO serves as something of a cash cow  
10 for the federal government whereby it takes in all of its  
11 revenue through fees. Taxpayer money does not pay for  
12 the USPTO, it takes it in by fees, but it also has to  
13 turn over a large percentage of those fees, and I think  
14 it's roughly 30 percent or so, to the general revenue of  
15 the government. And so in other words, the Patent Office  
16 is taking in more money than it's allowed to keep to do  
17 its own business.

18 This to us seems like a major problem. And  
19 it's not to say that the patent examiners are doing a bad  
20 job now, I don't think that's the case. But frankly, in  
21 order to simply reduce patent pendency, which in this  
22 business is a huge issue, we ought to allow the USPTO to  
23 retain the funds that it collects.

24 MR. BARNETT: Josh, do you have some thoughts  
25 on this?



1                   MR. KAPLAN: A couple things come to mind.  
2           Again, I think I try to represent a real world  
3           application of patents here. An interesting thing, and  
4           I'm not going to, you know -- Yar made some interesting  
5           points.

6                   Number one. You know, Intouch also is funded  
7           by people like Bill Hewlett, Ray Norder who founded  
8           Novell, Amerindo, Bay Partners, Tim Draper, venture  
9           capitalists who felt we had a great idea. And we were  
10          very early on in this thing, 1990. I think the founders  
11          of Yahoo!, I don't know, they were still in high school  
12          probably around that time. We were out there very early.

13                   In fact, when I first got my patent on  
14          identifying the user, tracking the user, having the user  
15          uniquely identify themselves to the system, previewing  
16          music, I waved my patent around at a board meeting to  
17          venture capitalists. They looked at it and they said,  
18          "Let me understand this. You've got a patent that  
19          somebody will have to identify themselves to a system  
20          before they listen to music? What a worthless patent  
21          that is." They didn't ascribe any value to the patent  
22          that we had.

23                   In fact, as recently as two weeks ago I read an  
24          article where the venture capitalist was quoted, and I  
25          think it was Benchmark that said, "We really don't

1 ascribe a lot of value to patents that small companies  
2 have. It's more of getting out there quickly and  
3 establishing a beachhead for their product."

4 Now, interestingly enough, I've never met Yar  
5 before, but obviously he received our letter, our notice  
6 letter. Okay. No follow-up, no discussion, not a call,  
7 not a reach out. Hey, Intouch, what can we do to work  
8 with you to see what we can do?

9 And by the way, Yahoo! I believe just became a  
10 profitable company. I'm not sure if they're profitable  
11 today, but like most of these companies that have spent  
12 hundreds and hundreds of millions of dollars -- Excite,  
13 obviously we know what's happened with them. They're, I  
14 think, in Chapter 11 right now and probably will cease to  
15 exist.

16 It's been a market share game in the Internet  
17 industry. It doesn't really matter how quickly you are  
18 out there with a product. Ask anybody who's competed  
19 against Apple or Microsoft. You establish a nice little  
20 product. Next thing you know, it's part of their  
21 operating system. Oh, too bad, you've lost your market.  
22 This has happened to countless companies in the valley,  
23 all that have been venture funded. The only thing they  
24 can do is go off and sell their company.

25 I think when EMusic was public it had a market

1 cap of, I don't know, \$300 million. Is that right?

2 MR. KOHN: Don't remind me.

3 MR. KAPLAN: \$300 million. They got sold for  
4 \$14 million, I believe.

5 MR. KOHN: No, 25.

6 MR. KAPLAN: Okay, \$25 million. So again,  
7 market cap doesn't mean anything, the public market  
8 doesn't mean anything. The problem is if somebody comes  
9 along with your same technology and eclipses you and runs  
10 out there and gives it away, you really have nothing that  
11 can protect you aside from your patent portfolio.

12 So Yahoo! was known as a search engine. They  
13 got into the music space. When they did that we sent  
14 them a nice friendly letter, not from the lawyers but  
15 from myself to the CEO of Yahoo!. No response. And we  
16 don't understand why there wasn't some type of reaching  
17 out to say, "Let's take a look at this. How can we work  
18 together? "

19 Actually, we did finally get a letter from a  
20 gentleman at Yahoo! who said, "Show us how we infringed."  
21 So we went back to our intellectual property letter and  
22 we put together a massive claims chart analysis on our  
23 patents versus what Yahoo! was doing, clearly showing  
24 that there was at least the presumption of some  
25 infringement. Nothing. No return calls, no return

1 letters.

2 I think we've now outlasted three or four  
3 lawyers at Yahoo!, and we finally, because we happened to  
4 settle with our good friends over at Amazon -- and I'm  
5 not even sure Paul knew about our lawsuit with Amazon.  
6 Maybe you did, maybe you didn't, but I will tell you  
7 this. As soon as we try to reach out and establish a  
8 contact at a company for a license, the business people  
9 say, "Let's send this to the lawyers." That's it, end of  
10 negotiation. It then becomes my lawyers negotiating with  
11 the lawyers within Amazon.

12 So for two years, and I'll wager that Amazon  
13 spent \$500,000 to \$600,000 to defend this, we end up  
14 settling. It's a confidential settlement so we can't say  
15 anything. We're pleased with the settlement. I'm sure  
16 Amazon is too because they never have to deal with us  
17 again, and most of the companies have tried to structure  
18 the same settlements. But it would have been a lot  
19 easier and a lot less expensive for everybody involved if  
20 the business people could have sat down very early on and  
21 decided what a reasonable license fee is.

22 We hired damages experts. We sent the damages  
23 expert report to Amazon. I'm sure they laughed at it and  
24 filed it away. But again, every step that we made to try  
25 to reach a reasonable negotiated settlement simply ended

1 up with the lawyers saying, "It's really not acceptable  
2 to my client," and so you're right back at ground zero.

3 And so, it's my feeling that unless there is  
4 something that preempts the legal process, like an  
5 arbitration or like something where there's a panel that  
6 is able to sit down and help these companies come to  
7 terms, it's simply an issue then between the law firms,  
8 and then it becomes an issue of who has the staying  
9 power.

10 Luckily we were able to be creative and bring  
11 in initial money from lawyers who were contingency  
12 lawyers. It's not the greatest thing I would recommend,  
13 but your venture capitalists don't want to see you spend  
14 \$5 million to defend a lawsuit, so we had to do what we  
15 had to do to try to get to this point.

16 We've settled with five of the six defendants.  
17 Finally, after doing this and after getting some press,  
18 other companies are saying, "Okay, we'd like to sit down  
19 with you and discuss this," and that's where we are  
20 today, but it took two years and millions of dollars and  
21 hundreds of notice letters to even get to this point. I  
22 mean, I think if anybody else has to do that, any  
23 entrepreneur or inventor, it just kills the whole  
24 process.

25 And we have a lot of people coming to us right

1       now, small inventors that have interesting patents that  
2       are saying, "How can you help us with this? We haven't  
3       gone through Markman. You've seemed to monetize this.  
4       You've gone through the process, you've gone through all  
5       the pain. Can you help us with our patent?"

6               And so one of the things that we're looking at  
7       is, is it worth it to take on some other patents, make  
8       them a part of our portfolio and move this ahead? That's  
9       what we're faced with in order to protect our market.

10               (Tape Two, Side A)

11               MR. BARNETT: Yar?

12               MR. CHAIKOVSKY: My first response would be  
13       that Josh did receive response very, very quickly. He  
14       may be forgetting due to the sheer number of people he  
15       sent letters to, but actually our company was one of the  
16       few, and was in fact congratulated by Intouch for our  
17       responsiveness as compared to others, maybe even some  
18       that are at this table, to your letter. So I would  
19       disagree with that characterization.

20               Secondly, I would also disagree with the  
21       characterization that, yes, it does get handed off to  
22       lawyers, but the lawyers requested more than just claim  
23       charts. The lawyer requested a significant amount of  
24       information, and the information that you just set forth  
25       with respect to what you provided Amazon, never

1       forthcoming.

2               I mean, the reality is -- and I won't point  
3       this at Intouch -- the reality when you get letters all  
4       the time from companies is that they don't provide you  
5       this information. You're looking for information with  
6       respect to the patent, whether it be claim charts or what  
7       exactly it is that they think is problematic or infringes  
8       their patent, or the damages calculations, as Josh just  
9       mentioned. You know, where is all this information, or  
10      maybe you could help me come to a reasoned analysis as to  
11      what to do in this situation.

12             And the reality is, yes, lawyers do provide  
13      advice in the situation. And the fact of the matter is  
14      that Josh may be sitting there because his company is  
15      sending out a letter, and this is his business and he's  
16      not making money in his business and therefore they have  
17      to sue people to extract rent to keep up with his  
18      business.

19             Well, Yahoo! at the time when I was there, I  
20      was getting a letter every three weeks, so maybe yours  
21      wasn't on my priority list because I was getting a letter  
22      from every other company in the world to do the same  
23      thing, and being the only patent attorney there, there  
24      was a lot to do.

25             So there's also a time lag when you're dealing

1 with the Yahoo!'s, the Amazons, the AOL's and all the  
2 other individuals, Time Warner, et cetera, that you sent  
3 letters to. These are large organizations, bureaucratic  
4 organizations, and as opposed to these smaller entities  
5 such as Zaplet where I could probably respond to you at a  
6 quicker point in time. The bureaucracy happens to be a  
7 lot larger, not as large maybe as the government's, but  
8 it happens to be quite large and the responsiveness will  
9 be quite longer in time.

10 MR. BARNETT: Thanks, Yar. Everybody, it  
11 seems, is ready to speak. I've been informed that it  
12 might be a good time for a break, though, just because  
13 we're approaching the two-hour point, so let's come back  
14 in ten minutes. I've got -- well, let's come back in ten  
15 minutes. Thanks.

16 (A brief recess was taken off the record.)

17 MR. BARNETT: -- that these companies are  
18 dealing with and that the industry is dealing with and  
19 some of the problems that exist. I think it might be  
20 nice to shift gears a little bit and maybe look at  
21 perhaps some solutions or some ways that have been  
22 attempted to try and deal with some of this, whether it's  
23 at the PTO or the Business Method Patent Initiative or  
24 the re-examination process.

25 Jim, do you have any thoughts on that as far as



1 the re-examination process and some of the initiatives of  
2 the PTO?

3 MR. POOLEY: Well, the Business Method  
4 Initiative, by all reports both anecdotal and I think  
5 statistical, is very encouraging, and I think it's a  
6 demonstration of the way in which an agency with a gate  
7 keeper function like the PTO can properly respond to an  
8 issue and do it in a timely and effective way. So I'd  
9 say kudos on that one.

10 As far as issues of pre-grant input or the  
11 post-grant opposition process, I think there are some  
12 very interesting things to look at there to make the  
13 process more rational and efficient, and I think those  
14 deserve further inquiry.

15 I think the difficult thing you have to deal  
16 with is trying to get the information in to the PTO so  
17 that it can be used, and to make sure that that flow is  
18 open and free and not discouraged or constricted by fears  
19 of estoppel by participation in the process. So there  
20 has to be a certain balancing there, but I think there  
21 are great opportunities in both pre-grant comment and  
22 post-grant opposition so long as it's extremely  
23 efficient, streamlined and doesn't lead us to the kind of  
24 process that we've seen in some other countries.

25 I do want to make just two very quick comments

1 on some of the observations that have been made here.

2 The notion of different terms or a reduced term  
3 for certain kinds of patents rather than a  
4 one-size-fits-all twenty-year term. It's a beguiling  
5 suggestion and I think an interesting one; however, I  
6 think it's something that we have to look at very, very  
7 carefully. The system has worked very well so far, I  
8 think, by and large with a twenty-year term or a  
9 seventeen-year term or a ten-year term, whichever point  
10 in history you take as the measure, but a common term for  
11 all sorts of technologies.

12 We have to look carefully at what some of the  
13 collateral problems might be of trying to define which  
14 patents fall into what technology and how much each  
15 deserves and what the effects are of the length of the  
16 examination process, but all of this may be a bit  
17 academic because we have certain international treaty  
18 obligations that may make that impossible anyway. So  
19 that's one comment there.

20 The second comment has to do with the danger in  
21 this debate of descending into name calling on patents.  
22 Not about people. I think, you know, that people can  
23 measure their own relationships, but I think when we're  
24 talking about patents it's easy to label a patent as bad,  
25 silly. And some of them clearly are, and we all can

1       amuse ourselves with some of the patents that have been  
2       issued.

3               But as I pointed out earlier, in my own  
4       observation, it's not the patent as issued that really is  
5       the biggest problem, but the way in which we deal with it  
6       after it's issued. And if we succumb to labels, whether  
7       it's the one-click patent of Amazon.com or call something  
8       else a shopping basket patent and so forth, we sometimes  
9       make assumptions about the content of that patent and the  
10      coverage of the claims that are not warranted and that  
11      deteriorate the quality of the debate.

12             It's very important when you're looking at any  
13      patent and trying to make a judgment about its quality  
14      and its coverage to read the claims and understand  
15      exactly what it is rather than to put a name on it and  
16      then get drawn into a discussion that may not be  
17      well-founded.

18             MR. BARNETT: David, I know you have to leave  
19      fairly soon.

20             PROF. MOWERY: Yeah.

21             MR. BARNETT: Do you have some points you'd  
22      like to make?

23             PROF. MOWERY: I just wanted to comment very  
24      briefly on the point you raised about the U.S. re-exam  
25      process and the processes for post-grant re-examination

1 or opposition.

2 First, and I should preface this by suggesting  
3 this is not, as far as we can see, the fault of the  
4 USPTO, but the re-examination process as it was amended  
5 in the Congress and developed really is one that operates  
6 very differently from what we see in an EPO, European  
7 Patent Office, style opposition process.

8 If you look at the data, which again Mr. Graham  
9 has helped me collect and Bronwyn Hall collect, it looks  
10 as though nearly 50 percent of the re-examinations for  
11 which we have records in the USPTO covering the '80s and  
12 '90s are initiated by the patent holder, all right? So  
13 this new prior art comes up or they encounter problems in  
14 the claims.

15 So the point here is not that this is a good or  
16 a bad thing. It is that this is operating for a  
17 substantial number of the patents in a very different way  
18 than the opposition process that some people originally  
19 envisioned the re-examination process fulfilling. And  
20 again, this is not a USPTO issue, this is more a  
21 congressional design of the process issue as far as I can  
22 see.

23 The second point relates to the opposition  
24 proceedings as they operate in the EPO. One of the  
25 benefits that some people have suggested for a more

1       elaborated post-grant opposition proceeding in the U.S.  
2       system is that it could resolve uncertainty about the  
3       validity and the like more quickly. However, what seems  
4       to be the case in the EPO process is that, partly because  
5       of the need for an appeals procedure, this takes a very  
6       long time. So one of the key benefits that is at least  
7       held out for an opposition style process in the States  
8       would be that that is a more rapid resolution doesn't  
9       seem to operate based on the data that we've been able to  
10      collect on the EPO opposition process. That's something  
11      to keep in mind.

12               And it's also important to recognize that the  
13      EPO opposition process does not preclude litigation  
14      following the conclusion of the opposition process and  
15      the appeals of the opposition process.

16               So it's not clear what you're buying into, at  
17      least on the basis of the data we've seen. When you go  
18      toward an opposition process and graft it into the U.S.  
19      system, which obviously would have a very different set  
20      of political dynamics in the design of this process, as  
21      witnessed in the re-exam process.

22               MR. BARNETT: Brad, you've been fairly patient  
23      for awhile. Do you have some comments?

24               MR. FRIEDMAN: I do, actually, on what's been  
25      just discussed and I wanted to talk a little bit about

1 your question on R&D.

2 First to what was just stated, in a potential  
3 U.S. opposition procedure one possible solution is to  
4 allow a third party similar to what we currently do in  
5 the re-exam, allow a third party to submit prior art and  
6 perhaps an argument, and that's all, and have the rest of  
7 the proceeding continue to be ex parte in the Patent  
8 Office. And so that third party is no longer involved  
9 that would highlight the efficiencies, if you will, of  
10 the U.S. Patent Office vis-a-vis the inefficiencies that  
11 you might see in the EPO system where the opposition  
12 period can take an extraordinarily long time.

13 I also wanted to note that I personally don't  
14 feel that it's ordained that all patents must be  
15 identical, whether it's 17, 20 or 10 years.

16 And also with respect to the breadth and scope  
17 of those rights that are given, I look to countries  
18 outside the U.S. such as the petty patents in the German  
19 system where the patentee or perhaps the Patent Office if  
20 you might here in the U.S. can decide what type of  
21 patent, what type of grant might offered to the patentee,  
22 and so that creates more options for the government to  
23 give particular rights to the patentee for providing  
24 further innovation. I think that's something that we  
25 might be well advised to look at.

1           The difficulty, as I mentioned, is the  
2           administrative burden, which is enormous, in trying to  
3           make those distinctions, and would those distinctions be  
4           then appealable, and so it's very important to look at  
5           that process as well.

6           A comment on the innovation and the R&D  
7           question that we had initially asked, I wanted to make  
8           this point. Outside the software industry the use of  
9           patents for other business purposes such as corporate  
10          intelligence or determining technology trends where there  
11          are technology gaps within the IP vector of the industry  
12          is fairly commonplace. In the software industry it's  
13          not. Outside of software the information can be used as  
14          input in, say, a continuous feedback loop for R&D, so I  
15          understand where the technology is going because I can  
16          see what has been patented and what is being patented;  
17          therefore, I know how to direct my R&D to innovate in a  
18          particular area.

19          In the software industry, as we mentioned  
20          earlier, and Jim, I think you mentioned it specifically,  
21          the number of overbroad patent claims allowed by the  
22          USPTO, the uncertainty in the current patent process  
23          going through, and particularly the uncertainty in the  
24          judicial process post-grant, all combine to increase the  
25          difficulties and inaccuracies of the endeavor of trying

1 to use that information in a competitive manner, because  
2 there's too much information and it is no longer  
3 meaningful in the same way as it might be in other  
4 industries, which might seem irrational.

5 The result is that you undermine the  
6 fundamental purpose of a patent system to provide  
7 valuable information and incentives to innovate beyond  
8 the existing art so I see where the art is and I instruct  
9 my R&D, I focus my resources and endeavors to improve  
10 upon that art for my profit and ultimately for the  
11 benefit of society. But instead, in the software  
12 industry I would say that patents are at best neutral to  
13 R&D efforts, and at worst an additional risk and  
14 uncertainty that slows innovation in the industry.

15 MR. BARNETT: Bob.

16 MR. KOHN: Yeah, first I'd like to clarify for  
17 the record that I'm not speaking on behalf of Borland,  
18 I'm speaking on behalf of James Pooley. Well, two  
19 comments. One is -- actually, I'm speaking on behalf of  
20 Laugh.com so that you won't take anything I say  
21 seriously.

22 One comment that, actually, Jim has alluded to  
23 or referred to twice, and that is that he's not unhappy  
24 with the Patent Office and how their processes and  
25 procedures are going.



1           I don't have any hard facts, but I can just say  
2           just through my experience over ten or fifteen years,  
3           I've seen just too many patents come across my desk that  
4           are generally agreed to be either obvious or the claims  
5           are just overbroad. Too many of them, whether they're  
6           business model patents or other kinds of patents, they're  
7           just stunning and we just can't believe these actually  
8           came out of the Patent Office.

9           And the other thing I'd like to just throw out  
10          which is more in the notion of Adam Smith, you know, the  
11          invisible hand. I don't really think anyone at the  
12          Patent Office is doing anything to specifically sway the  
13          system one way or another, but I did see the previous  
14          Commissioner of the Patent and Trademark Office give a  
15          speech once where he showed a chart of the revenues of  
16          the Patent and Trademark Office and how proud he was that  
17          those bars kept going up and look at all the patents that  
18          we're issuing. And it was just going up, up and up, and  
19          he was saying that was sort of the reason of their  
20          existence, to have more and more patents issued.

21          And everyone, I think, was pretty skeptical in  
22          the audience that I talked to, like wait a minute, it's  
23          really we're talking about the quality of the patents  
24          that really should be the focus here and not the quantity  
25          of the patents.

1                   And to even be more skeptical, and I'm not  
2                   accusing anyone and I'm a lawyer myself, okay, but the  
3                   Patent Office is comprised of examiners who are all  
4                   lawyers, all right, and they're going to -- I think their  
5                   career path generally is not to remain patent examiners  
6                   but to go out in the field and to either prosecute  
7                   patents or to become like a Jim Pooley and be a litigator  
8                   of patents where it's a lot more lucrative.

9                   So isn't there something built in, may I ask  
10                  very skeptically, isn't there something built in the  
11                  system where these transaction costs and wasteful wealth  
12                  transfers, as economists would call them, are kind of  
13                  being perpetuated by the very people who would benefit  
14                  from those wasteful wealth transfers and transaction  
15                  costs? Which the transaction costs of course 99 percent  
16                  of it go to the lawyers, so maybe the economists have a  
17                  piece of that too, so they're the ones who have an  
18                  incentive, I would think, to create as many bad patents  
19                  as possible so that when they get out they litigate them,  
20                  all right?

21                  Now, I'm not accusing anybody in specific, I  
22                  would never accuse a specific person, but I think the  
23                  incentive there is built in, and the Patent Office,  
24                  rather than talking about quantity, ought to really be  
25                  focusing on things built into the system that are, I

1 think, incentivising high transaction costs and wasteful  
2 litigation.

3 On the other side of the coin, I mentioned  
4 earlier my concern or my desire for a system where, as  
5 Jim put it, it's *The Producers* problem where one company  
6 comes in and asks for five percent, another company comes  
7 in and asks for five percent, and all of a sudden you're  
8 like Zero Mostel or Nathan Lane, you know, giving away a  
9 hundred and twenty percent, three hundred percent of your  
10 revenues to various patents.

11 And there's an infinite number of potential  
12 patent claims that can come to you, that there really has  
13 to be some kind of a system whereby the reasonable  
14 royalty or the fee for that patent relative to all the  
15 other things that go into that project can be determined  
16 at a much earlier stage rather than after the liability  
17 has been determined, it should be well before then.

18 And I'd like to ask Jim whether he has any  
19 ideas on the subject of how, since he's a litigator and  
20 would be closer to it, how he might envision that kind of  
21 a system.

22 MR. POOLEY: If I could just answer that, and  
23 I'm speaking only for myself. I've been in this position  
24 before. One idea that comes to mind short of trying to  
25 encourage either through industry sources the formation

1 of consortia or perhaps even through government  
2 imposition, there is the idea similar to a stakeholder  
3 lawsuit in court where you would implead all the people  
4 that you think have IP that's relevant to what you're  
5 doing into one place, offer to pay a reasonable royalty  
6 to whatever it is that's determined at the end of the day  
7 to be the necessary IP, and let them fight it out among  
8 themselves in one place as to what the proportionate  
9 share should be.

10 I've not had a client yet that's willing to  
11 take on that burden, and of course it's an imperfect  
12 solution because you don't always know who all the  
13 impleaded defendants would be, but at least it's, I  
14 think, a way for us to start to think about this. The  
15 problem is that we don't know who all the people are and  
16 we can't get them all in one place.

17 MR. BARNETT: That raises some interesting  
18 issues. To a large extent, concepts such as standards  
19 setting have been brought up as well as, I don't know if  
20 the patent pools have been brought up so much, but those  
21 seem to come about in other conversations.

22 Jordan, do you have any thoughts on what he  
23 just said?

24 MR. GREENHALL: Actually, I have a number of  
25 comments that I'm going to hold onto the floor for a

1 second, but actually MPEG was one of the areas that I  
2 wanted to talk about.

3 MPEG is the significant patent pooling  
4 organization in my space, which has to do with video  
5 technologies, multimedia technologies. They were created  
6 in response to the patent thicket that had developed in  
7 the mid-'80s in the digital video space such that  
8 business couldn't move forward in the industry because  
9 there was simply too many overlapping conflicting  
10 patents. So in order to promote standards, the  
11 international organization got together to create a  
12 patent pool that would try to create both a nice standard  
13 for everybody to be able to work with and a comprehensive  
14 reasonable and fair license so everybody could actually  
15 go ahead and have rational licensing.

16 It worked quite well for the first two  
17 iterations. The current iteration, MPEG-4, may be  
18 exposing some of the significant difficulties that  
19 have arisen since the inception of the standards  
20 organization.

21 The first is the increasing politicalization  
22 and economic value just found in being embedded in the  
23 standard. Frankly, the first two iterations of MPEG were  
24 what you might call an ideal environment, very public  
25 service-oriented, lots of intellectual property dropped

1       into it, very touchy-feely and came off quite well.  
2       Everybody agreed on it and the licenses were pretty  
3       straightforward.

4               MPEG-4 has become considerably more politicized  
5       with very significant companies being part of the  
6       licensing process as well as the standardization process  
7       who have significant interests in the failure of the  
8       standard, for example.

9               That said, they've just recently announced  
10      licensing terms for one element of the standard, about  
11      two years after they said they originally would. And in  
12      fact those terms will be open for another year before  
13      they're finalized, introducing some quite novel concepts  
14      to the licensing scheme.

15              For those who aren't familiar, MPEG-2 licensing  
16      has always been driven by the encoder and decoder. Think  
17      of consumer electronics, flat fees based on units sold  
18      with also a small fee tied to disks.

19              MPEG-4 introduces the concept which is very  
20      sort of 2000-ish of starting to also put fees on  
21      broadcasts, that is per viewer, and start trying to put a  
22      tax on the actual use of the technology as it scales into  
23      delivery of content -- something that's shocking the  
24      content providers and interestingly enough, actually,  
25      economically if you just do the math, can't work. The

1 fee is actually larger than the revenue generation that  
2 this provides. But that's neither here nor there.

3 The issue that's of significant interest within  
4 the industry is the failure of MPEG to provide a  
5 reasonable platform of patent. That is, I can go out and  
6 get an MPEG license, but that doesn't in any way protect  
7 me. The number of companies who have similar  
8 intellectual property to those that are inside the MPEG-4  
9 patent pool is very large; the overlapping of those  
10 licenses is very large.

11 And to make it extremely concrete, if a very  
12 large international multimedia company, who won't be  
13 named, asks me to license them my technology, and as part  
14 of that license requires that I warrant that my  
15 technology does not infringe on anybody else's patents, I  
16 can't sign that contract, because I don't know. Even if  
17 they go out and pay the MPEG-4 license and leverage their  
18 time and effort to actually go out and do the analysis,  
19 they can't promise that either. So it's a pretty  
20 significant problem that even an international standards  
21 organization can't promise you that if you pay their  
22 license, they can cover you against third party lawsuits.

23 Another comment, just to be clear on the  
24 allocation of resources that we're facing and maybe to  
25 give a little bit of a ballpark of how research and

1 development is impacted by patents, our company is 75  
2 percent engineering, research and development. We've  
3 been around for 2 years. For the first year and a half  
4 we were allocating roughly 50 percent to advanced  
5 research and 50 percent to development. In the coming  
6 quarter that allocation will now be 50 percent  
7 development, 25 percent research; 25 percent of that will  
8 also now be dedicated to assisting in the filing of  
9 patents. This is actual engineer time, these are  
10 physical engineering resources who could be developing  
11 new technologies who will be working directly with our  
12 attorneys to process the actual patents.

13 By the way, that does not include the negative  
14 impact on productivity that occurs when you force  
15 engineers to talk to lawyers.

16 As a complete side comment, but I think one  
17 that was brought up earlier that I found to be shocking  
18 and interesting, is this concept of wilfulness claims  
19 that Jim brought up earlier.

20 My first introduction to the way to deal with  
21 patents by my attorneys was, for the love of God, don't  
22 look at them, which meant that I was in a vacuum for more  
23 than a year. I simply didn't look at any patents and I  
24 never went to the USPTO site, and if anybody mentioned a  
25 patent I burned it as quickly as possible.



1           I've recently reversed that process, simply  
2       because I've been asked to sign these warrants and I kind  
3       of feel like I need to know what I'm warranting. That  
4       puts me in a very precarious position. I now am familiar  
5       with lots of patents, many of whom it's reasonably  
6       arguable I might be infringing on, although for the  
7       record I don't believe I'm infringing on any patents.

8           That just strikes me as a very odd way for the  
9       law to work, so just my two cents to those who might have  
10      some ability to change it: if you could fix that, that  
11      would be great.

12           Last part on the concept that's been floated  
13      around a little bit on reallocating the scope of patents  
14      to be proportionate to the industry, the idea strikes me  
15      as being very common sensical. Really, if you sort of  
16      look backwards, if the concept of patents is to promote  
17      innovation, and to be very bottom line as a citizen and  
18      as a consumer to provide me with as much cool stuff as  
19      possible for as little as possible, a patent should  
20      compensate an innovator with the very least amount of  
21      economic incentive that would introduce as much  
22      innovation as possible, so that if I as an innovator feel  
23      like I can get, say, 10-X return on my risk, I'll do it.

24           In many industries, particularly in the  
25      software industry, you don't have to give me any

1 incentive because competition would generate innovation.  
2 It would be great if I could get 100-X return on my  
3 investment, and certainly as an executive I'll probably  
4 be lobbying you to do that, but as a citizen if you look  
5 at simply the risk involved in the development of  
6 intellectual property in different industries, the  
7 investment and time to market is incredibly disparate.

8 I mean, before I got into this IP nonsense I  
9 was actually involved in biotech, and they were talking  
10 about ten, fifteen years, hundreds of millions of dollars  
11 and very high likelihood that it'll blow apart at any  
12 moment.

13 In my business I can develop intellectual  
14 property that's highly patentable in two, three months,  
15 \$20,000, and it's guaranteed to work because I did it.  
16 Rewarding me with the equivalent patent coverage just  
17 doesn't seem to me to make sense from a pure common sense  
18 perspective. I would say that the biggest issue really  
19 is taking the time to go out and take a look at what the  
20 actual economic implications are of changing that  
21 machine, and then really taking the time as intelligent  
22 people to figure out how to implement the right  
23 institutions to make it work.

24 I admit I'm extraordinarily naive. I actually  
25 do tend to believe that smart people can actually develop

1        pretty good rules when they put their minds to it, but  
2        that naivete leads me to think that's a pretty good idea.

3                MR. BARNETT: I think at this point we should  
4        go straight to the source as far as the Patent Office  
5        goes, and Ray, do you have any thoughts?

6                MR. CHEN: Thanks, Mike. I'm not even sure  
7        where to start. I'll just do the best I can to talk  
8        about a few different things.

9                Yeah, I am concerned that maybe there is, the  
10       more I listen, perhaps a perception gap going on with  
11       regards to the Patent and Trademark Office, but first of  
12       all, I think I do recognize that there's a concern about  
13       uncertainty with regards to patent scope and things like  
14       that, and perhaps patents being interpreted rather  
15       broadly.

16               But at the same time, I think if you look at  
17       the recent few years, say five to seven years, and you  
18       look at what the Federal Circuit as well as the PTO has  
19       been doing, you'll see that there's been a rather  
20       significant conscious trend towards stressing the clear  
21       notice function of what patents should have in terms of  
22       what their scope ought to be, and I think that's been  
23       especially stressed in these past few years.

24               If a certain Commissioner has taken pride in  
25       the fact that filings have gone up and issued patents

1       have gone up, I think it's probably more of an indication  
2       to him that that's a reflection on the pace of  
3       technological change in this country, especially over the  
4       past 20 years where we've seen an explosion of progress  
5       in so many different industries.

6               I think the USPTO would definitely want to  
7       encourage as much public participation in the process of  
8       trying to maintain a strong system of valid patents. I  
9       think that's really what the PTO is there to do. I don't  
10      think there's anybody in the PTO that really thinks that  
11      its incentive is to issue as many patents as possible. I  
12      think it's to try to do the best job that it can do under  
13      the circumstances and under the prior art that it has  
14      access to, and to that extent, public participation is a  
15      problem.

16             I've been hearing that there seems to be  
17      feelings of concern with the two re-examination regimes  
18      that currently exist, and perhaps they are imperfect, and  
19      we're definitely open to hearing all kinds of suggestions  
20      that we can promote on the Hill to improve both of those  
21      processes, as well as the possibility of opposition  
22      proceedings.

23             I think we've heard that the Business Methods  
24      Patent Initiative that came out a couple years ago has  
25      done quite a bit in this particular arena to improve the

1       quality of the examination process. We've done industry  
2       outreach where we've specifically gone out to seek out as  
3       much prior art as possible. Obviously, most of our prior  
4       art databases rely on previously issued patents, but in  
5       areas such as software and the Internet, obviously we  
6       have to go to non-patent literature as much as possible.  
7       And again, that's where we really count on public  
8       participation.

9               One question I have from hearing some of the  
10       discussion this morning is whether there's something  
11       unique about the software industry -- and maybe I pose  
12       this specifically to Professor Mowery and Mr. Pooley --  
13       about this tension between small companies, large  
14       companies, maybe a small company having a patent, and  
15       whether or not there's this following perception that  
16       these small companies are somehow creating a drag on the  
17       larger companies?

18              And just as a crude analogy I would look at,  
19       say, the auto industry where maybe an individual inventor  
20       has a patent on a windshield wiper and then all of a  
21       sudden goes and tries to reach out to the Big Three  
22       automotive companies and tries to find a reasonable  
23       royalty there, and is that somewhat analogous to what we  
24       see here?

25              I guess the only question I have is, is there

1 something unique about the software industry that makes  
2 it different from really any other industry that's  
3 dealing with these same type of issues?

4 PROF. MOWERY: I have to go in just a couple  
5 minutes. I think the question you pose is absolutely the  
6 right question to pose to this group because I think that  
7 there's a great deal of industry specific knowledge here  
8 and a lot of what, in my view, we've heard this morning  
9 could be replicated in other industries: small firms,  
10 large firms, short pockets, deep pockets, etcetera,  
11 etcetera, etcetera.

12 Seems to me there are probably two or three  
13 things about software that are different. One obviously  
14 is the fact that you have a regime change in this  
15 industry in some sense where you have new markets opening  
16 up where formal IP protection now is much more valuable,  
17 and you have this change in the judicial deference to  
18 patents and the like that has increased the perceived  
19 value of patents.

20 All of that means you're in this transition  
21 period where you're going to a much more patent intensive  
22 regime. That means that the patent-based prior art is  
23 much less abundant for examination. But again, that, I  
24 think, is something that one sees in new areas of  
25 technology more generally, this transition problem in a

1 system that relies heavily on reviews of patent-based  
2 prior art.

3           So software is different, but software is not  
4 different in that you've got this transition problem, and  
5 arguably, once the transition is over, whenever that  
6 happens -- and as prior art becomes more abundant that  
7 may be less of a problem -- but I think the other areas  
8 in which software may pose unusual challenges is the  
9 potential complexity of the patent coverage of a given  
10 artifact. I mean, the argument that you can have  
11 potentially dozens or hundreds of patents covering  
12 individual components of a product, that may create one  
13 of these anti-commons problems where the complexity is so  
14 great.

15           The second, I should say the third area in  
16 which this industry is perhaps different is that the cost  
17 of entry, particularly as compared with the automobile  
18 industry, is obviously relatively low. I mean, people  
19 still in some instances can enter this industry on the  
20 basis of maxing out their credit cards. That's not  
21 commonly associated with other far more capital intensive  
22 industries.

23           So arguably you have a much larger fringe of  
24 independent or new entrants who are interacting with,  
25 sometimes fruitfully and sometimes not, an established

1 group of firms, so in some ways that may be another  
2 characteristic of this industry that is different, but  
3 it's embedded with the change in markets and the change  
4 in technology that is driving this industry so rapidly.

5 So those are some thoughts, but I don't think I  
6 have fully exhausted the possibilities of what makes this  
7 industry unique. I wish I could stay and hear from  
8 people who actually know more about it from a  
9 practitioner point of view, but I have to go teach.

10 Excuse me.

11 MR. KOHN: If I can reiterate a couple of  
12 David's points on the difference between software and  
13 others. The availability or nonavailability of prior  
14 art, primarily because a lot of it's behind the object  
15 code, is a challenge the Patent Office has had and we  
16 realize that, and also the number of potential processes  
17 that could be in a million-line or ten million-line piece  
18 of source code.

19 But again, something I mentioned earlier. You  
20 can't get a copyright on a windshield wiper, so really  
21 the only available protection for innovation for  
22 windshield wipers is patent protection. You already have  
23 copyright protection in that entire piece of software.  
24 What is the marginal benefit of patents within that  
25 particular piece of software to the people who have to



1       make money selling the software? So I think that is  
2       something that should be considered, and I think clearly  
3       there is a difference in software.

4               I don't know necessarily that there needs to be  
5       any changes to the patent law to reflect this. I've  
6       given a lot of thought to this. The changes that were  
7       made several years ago, I think were great, eliminating  
8       the submarine patents. But having been through some  
9       major cases, I just think that -- and I didn't mean  
10      earlier to accuse the Patent Office of overtly doing it  
11      or whatever, but certainly I do think the Commissioner  
12      was very proud of the fact that the quantity of patents  
13      are going up.

14             I don't necessarily think it's all this new  
15      innovation, it's just all this need for defensive patents  
16      because of this thing that's been created. But I think  
17      the focus might be in what is the value in the software  
18      field of that one patentable piece of this huge product  
19      that has lots of contributions to its value, and how can  
20      that be determined at an early stage so someone can make  
21      an evaluation rather than just being faced with "We want  
22      five percent or we want ten percent, or this is going to  
23      cost you half a million dollars to litigate," so it's a  
24      nuisance value to begin with even though there's some  
25      minor value there.

1           I think there should be some focus -- and I was  
2           a little disappointed, James, that you didn't have the  
3           total solution to the problem on the process of  
4           litigation. Maybe when this lawsuit is filed or maybe  
5           when you get a demand letter there's some kind of board  
6           that goes through the evaluation of what's going on here  
7           to weed out the frivolous claims or not. I don't know  
8           the answer to that, but I think that's where a lot of, I  
9           think, useful focus can be made.

10           MR. BARNETT: Pam.

11           MS. COLE: Yes?

12           MR. BARNETT: You've been very patient.

13           MS. COLE: I have, and I'm usually not. Just a  
14           few introductory comments. First of all, my views do not  
15           reflect my colleagues at the Antitrust Division or my  
16           superiors, and they might not even reflect me because  
17           they change every day. I actually wanted to shift gears  
18           a little bit and talk about the role of the antitrust  
19           enforcement in all of this since these hearings are about  
20           the collision, if you will, of intellectual property and  
21           the antitrust.

22           Let me first say that I work with the San  
23           Francisco office of the Antitrust Division, and the  
24           Federal Trade Commission also has a San Francisco office,  
25           and both offices pride themselves in being very familiar

1 with high tech antitrust issues that are coming out of  
2 the Silicon Valley. That is what we tend to specialize  
3 in, so know that you have local friends in the antitrust  
4 enforcement agencies that you can talk to.

5 Which leads me to a story that I'd like to tell  
6 some of the business people here today. About a month  
7 ago, a small business owner came in to meet with me.  
8 This small business owner was being sued for patent  
9 infringement by a very big firm. This small business  
10 owner had found out that this very big firm had indeed  
11 sued many companies for patent infringement, had lost all  
12 of the cases that had gone to litigation, and if the  
13 cases didn't go to litigation had actually purchased the  
14 defendants as a way of settling the lawsuits.

15 That raised a lot of red flags with me, and  
16 that type of behavior by a dominant firm or a dominant  
17 patent holder can raise some interesting antitrust  
18 issues. They could potentially raise some sham  
19 litigation issues by the patent holder in terms of  
20 bringing these infringement cases as a way of tying up  
21 these small firms and because they're too busy defending  
22 the case to focus on what they're there to do.

23 And it's also a way, like I said, that they can  
24 be acquiring these firms. And a lot of times we at the  
25 government will not know about these acquisitions because

1       they will fall below the Hart-Scott-Rodino notification  
2       threshold or they will be deliberately structured in such  
3       a way as to avoid Hart-Scott-Rodino notification. So  
4       that type of behavior can raise Clayton Act merger  
5       concerns, it can raise sham litigation concerns, and I  
6       opened up a case and now I'm going to look at it.

7               Now, the good news is that if the government  
8       looks at a case it doesn't cost you anything except your  
9       tax dollars. Now, yes, we can move slowly, but quite  
10      frankly, I'm not sure we move any more slowly than the  
11      private courts do in this.

12             So I just want to raise that and I actually  
13      wanted to ask any of the panelists if they've had any  
14      experiences mostly as a patent defendant where they have  
15      raised antitrust counterclaims such as sham litigation  
16      counterclaims, patent misuse counterclaims, unfair  
17      competition counterclaims. I mean, the good news is if  
18      you win on that you obviously get treble damages and you  
19      can get attorney's fees.

20             So I see some cards going up so I think I'll  
21      just stop right there and hear from you on that.

22             MR. BARNETT: I think Bob just edged out Jim.

23             MR. KOHN: Sure. Well, when we were sued, when  
24      Borland was sued by Lotus -- my God, when was that, '93,  
25      1990, '91? I don't know when it was -- we intentionally

1 did not file any counterclaim for antitrust or anything  
2 else, but particularly antitrust.

3 And you know, they had 80 percent market share  
4 at that time, which was before Excel essentially, so  
5 there were potential claims there, but the reason why we  
6 didn't was it would have invoked their insurance  
7 provision so the lawsuit would have been covered by  
8 insurance, so we intentionally did not.

9 And most antitrust counterclaims in patent and  
10 copyright cases tend to be viewed by the people in the  
11 profession as just sham. They're not really going to  
12 work, but you just throw something over to the other side  
13 to put them on the defensive. But we decided not to do  
14 that because it would just simply have all their  
15 litigation financed.

16 Ours was financed fortunately by our insurance  
17 because I made a claim under our advertising injury  
18 provision, and we literally changed all the insurance  
19 forms as a result. But we had almost all of our fees  
20 covered by the cost of that, and we knew that on the  
21 other side that would be the main advantage for them, so  
22 we didn't do it.

23 And again, antitrust claims are generally these  
24 really soft claims and very difficult to do.

25 And the analogy, by the way, of

1 Hart-Scott-Rodino, maybe there should be a  
2 Hart-Scott-Rodino kind of process before patent  
3 litigation begins.

4 MR. POOLEY: There's something provocative.

5 I would just say that from my own experience,  
6 increasingly antitrust claims, counterclaims are made in  
7 patent litigation, but you have to distinguish between  
8 the sort that are the sham litigation claims which judges  
9 look on generally very skeptically, tend to bifurcate and  
10 put off because you haven't reached the predicate point  
11 of proving that you've won the case, and then the more  
12 complicated interesting kinds of claims of the sort that  
13 you've recognized or you've mentioned, including refusals  
14 to deal.

15 And there, I think, the experience generally is  
16 that the trial judiciary, cheered on a bit by the Federal  
17 Circuit, is also fairly skeptical about those kinds of  
18 claims because what they're hearing at least from the  
19 Federal Circuit is that patents are a very, very strong  
20 bit of property and you can't blame owners for how they  
21 use them. And I realize, of course, it's a much more  
22 complicated issue than that, but the tone is there.

23 And so, on the other hand, we absolutely see  
24 these kinds of claims coming up more and more often, and  
25 somebody's going to have to deal with them at the

1       appellate level on a continuous basis, I think, until we  
2       get further clarity.

3               MS. COLE: Let me just respond very quickly to  
4       some of those comments.

5               First of all, there will be separate hearings  
6       that the Federal Trade Commission will be holding in D.C.  
7       in terms of the role of the Federal Circuit. Perhaps it  
8       is because I was one of the attorneys that represented  
9       Intergraph in the private antitrust suit against Intel  
10      that went to the Federal Circuit, perhaps that leads to  
11      these comments. I myself am very concerned about the  
12      role that the Federal Circuit is playing in antitrust and  
13      I think that's an important issue.

14              In terms of your comment that antitrust  
15      counterclaims are often viewed as a sham or looked down  
16      upon, again, this may come from my perspective of being a  
17      plaintiff's antitrust lawyer in private practice and  
18      actually went back to the government, and after hearing  
19      comments today I'm very glad that I did.

20              You know, don't be so sure who's creating that  
21      perception. I mean, granted, yes, there are some cases  
22      that are of concern that are coming from the Federal  
23      Circuit, but I think you just have to be careful in terms  
24      of who might be creating that perception and why it's  
25      being created, because the antitrust laws are still

1       there.  There are still some good opinions on the books.

2               And I do agree that sham litigation is  
3       increasingly becoming difficult to prove, but one of the  
4       great things about doing an antitrust counterclaim is  
5       that you get access to some very good documents that you  
6       cannot believe exist, and so I just wanted to make those  
7       two comments.

8               MR. BARNETT:  I think Jim's comments brought up  
9       another idea in my mind.  Another avenue other than  
10      litigation where antitrust or fair competition issues can  
11      arise is in the licensing or cross-licensing process, and  
12      we've heard concepts such as leveraging and also from the  
13      standpoint of dealing with patent pools or dealing with  
14      --

15                               (Tape Two, Side B)

16              MR. POOLEY:  I have raised this notion before.  
17      I'm not sure whether it's a good idea or not, but it is  
18      an idea and so I'd like to throw it out here and perhaps  
19      hear comment from some of the other panelists.

20              One of the problems in licensing is the notion  
21      that was alluded to by Josh; that is, that virtually all  
22      patent licenses are confidential.  And as a result of  
23      that, when you enter into negotiations with a patent  
24      holder and the assertion comes across the table that you  
25      should pay X amount, whatever it is, because the industry



1       has recognized that, the natural response probably would  
2       be, "Well, that's interesting, but let me see the  
3       licenses so I can examine what the circumstances are and  
4       weigh the context in which that kind of agreement was  
5       reached."

6               But you can't see those agreements, you don't  
7       know precisely who the people are, how much it is that  
8       they actually are paying when weighed against other  
9       contributions that they're making or obligations that  
10      they're taking.

11             That, it strikes me, necessarily leads to a  
12      higher general payment of royalties than otherwise would  
13      happen if, for example, and this is where the idea is,  
14      all patent licenses like patent assignments were required  
15      to be recorded and perhaps made available for inspection.

16             You know, a radical notion and one that where  
17      we have to think about the collateral consequences, but  
18      it bears mention that there's a great deal of opacity  
19      that inhibits the natural process of negotiation of  
20      licenses, and it might be helpful if we were to free  
21      ourselves from the problem that comes up every time when  
22      someone suggests you ought to pay this and you say,  
23      "Well, let me see your other licenses and they say we  
24      can't do that."

25             And the rejoinder is, "Well, if I sued you or

1 if you sued me, we'd be able to see them." And he says,  
2 "Yes, I know that, but we're not in litigation." So you  
3 feel almost as if you're forced into litigation in order  
4 to get the discovery that you need to make an intelligent  
5 resolution to the dispute.

6 MR. KOHN: I like that. That's a great idea.

7 MR. BARNETT: Brad.

8 MR. FRIEDMAN: I had one comment, but I'm going  
9 to fold it into what Jim just said, which was intriguing.  
10 I'm going to, Jim, remind you of what you had suggested  
11 in terms of using impleading in terms of having all the  
12 people who might ask for a share of the royalties, of the  
13 rents.

14 One thing that David Mowery said was that the  
15 software industry was unique in terms of the number of  
16 components and the patents covering the various  
17 components to it. There's another industry that clearly  
18 comes to mind that I've previously worked in, which is  
19 biotech, and certainly pharmaceuticals, which shares that  
20 problem that the final product is covered by a large pool  
21 of patent owners, each of which own the naked virus, the  
22 gene, certain components, the vehicle of delivery and so  
23 forth that result in the final product.

24 And some system whereby you could pool these  
25 interested parties, and I view them now as patentees on

1       the one hand, and then on the flip side the potential  
2       licensees whose agreements you can't see, pool them  
3       together and create basically a market-driven assessment  
4       of the value of the patent.

5               The difficulty there is markets with few people  
6       in it are extraordinarily inexact. Currently what we  
7       have, though, is a one-off every time, and so I certainly  
8       don't see that what I'm suggesting is a panacea, but it's  
9       a whole lot better than what we currently have. Nor, of  
10      course, am I suggesting a particular structure because I  
11      haven't thought of one, but I think it's important to  
12      look at the uncertainties that we can focus on and bring  
13      to light.

14             For instance, we require some license  
15      agreements to be recorded if you want to create a secured  
16      interest in that license and the value, the revenue that  
17      comes with it. Well, perhaps having all license  
18      agreements recorded for the purpose of allowing the value  
19      of the patent to be seen is a good idea. Whether or not  
20      that should be public to everyone or available to those  
21      who sincerely are approaching for a license, maybe that's  
22      a good thing to do.

23             Which is leading me to say perhaps we want to  
24      go to a compulsory license model such as in France, in  
25      which case a reasonable royalty becomes out there and all

1       comers who are interested can show that they deserve to  
2       have a license. I'm not sure if we want to go there, but  
3       I think it's something we ought to look at if you're  
4       looking at trying to shed light on those areas of  
5       uncertainty.

6               MR. BARNETT: Thanks, Brad. I think at this  
7       point we may start wrapping things up. If anyone has any  
8       particular final comments they'd like to make or any  
9       thoughts that they've had as a whole, we'd appreciate  
10      them now. Jim.

11             MR. POOLEY: Just a quick comment. The  
12      compulsory licensing scheme I know Brad appreciates is a  
13      provocative notion, and just for my own point of view I  
14      think we need to be very, very cautious about that,  
15      because one of the pillars of the patent right is the  
16      right to exclude, and once you create a general  
17      compulsory licensing scheme you've eliminated that right.

18             I think there is some merit in other  
19      suggestions I've heard where, for example, the right to  
20      exclude, that is to provoke a judge to issue an  
21      injunction, might be limited to those who actually  
22      practice the invention, but a general compulsory  
23      licensing scheme I think is anathema to our system.

24             MR. KOHN: But compulsory licensing isn't  
25      totally foreign to intellectual property. It may not

1       apply in the patent field because the relative value of  
2       the patent of the particular product is going to be so  
3       varied in each case it would be very difficult.

4               And I mean, I don't know how they do this in  
5       France, but in the music industry there's a value of a  
6       song to a sound recording and they've set it at 7.55  
7       cents and that's what the government's statutory rate is  
8       set. And some songs have greater value than others to a  
9       recording, but you know, there is a level playing field  
10      that they can establish there for that.

11             I was looking at my testimony seven years ago  
12      in front the FTC and I suggested in one instance, and I'm  
13      not taking this position today, but that a compulsory  
14      license might be applicable in an antitrust situation  
15      where someone is controlling some kind of an interface  
16      standard or something like that to such a degree or so  
17      dominant that it's determined that --

18             MR. POOLEY: Essential facility.

19             MR. KOHN: Essential facility, I don't know  
20      what the terms are, and I don't want to get too close to  
21      that subject. But anyway, I'm not suggesting that, but  
22      compulsory licensing might be confined to specific  
23      instances where the antitrust field comes about.

24             MR. FRIEDMAN: I just wanted to say that I  
25      think it's clear we have a lot in our arsenal in terms of

1       enhancing innovation and specifying the ways in which we  
2       do that, and so if we put all of those on the table and  
3       take the radical idea that we can actually change things  
4       with a focus of vision as opposed to it's hard to change  
5       what we have as opposed to inertia, I think we can get to  
6       a place, perhaps even in our lifetime, where we've  
7       improved the system quite significantly.

8               MR. BARNETT: Very good. Does anyone else have  
9       any comments? On that note, I would sincerely like to  
10      thank all our panelists for coming today and would like  
11      to join in a round of applause for them.

12             (Applause.)

13             Thank you for attending. The next session is  
14      at two o'clock.

15             (Whereupon, at 12:25 p.m., a luncheon recess  
16      was taken.)

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**AFTERNOON SESSION**

MS. GREENE: Welcome back and thank you for returning for the afternoon panel. We had, as many of you know, a fantastic panel this morning that was an industry panel looking at the Internet and software.

This panel is entitled "Diverse Perspectives in Patenting" and we have an extraordinary group of folks around the table, so let me turn to introducing them very quickly.

Firstly, I'd like to introduce my colleagues at the government. My name is Hillary Greene and I'm from the General Counsel's Office at the Federal Trade Commission. To my left is Bill Cohen, who is the Assistant General Counsel for Policy Studies in the Office of General Counsel.

MR. COHEN: Policy Studies.

MS. GREENE: Policy Studies, that's where we come from -- Bill and Hillary. And then one person over we have Carolyn Galbreath, who is a representative from the Department of Justice; and then to her left we have Commissioner Tom Leary from the Federal Trade Commission; and to my right, Ray Chen, who's from the Patent and Trademark Office.

Okay. Let me just go real quickly through who our panelists are. They're going to be each giving

1 presentations scattered throughout, so why don't I just  
2 get the intros out of the way up front.

3 First we have Greg Aharonian, who is the  
4 publisher of the Internet Patent News Service, a daily  
5 e-mail newsletter that covers intellectual property  
6 issues. The newsletter has focused on the issue of  
7 patent quality, in particular the problems patent  
8 applications and examiners are having dealing with  
9 non-patent prior art. Mr. Aharonian is also a consultant  
10 to corporations and law firms conducting patentability  
11 and invalidity searches primarily in the electronic and  
12 computer areas.

13 We also have John Love with us. John Love is  
14 the Group Director in Technology Center 2100 at the U.S.  
15 Patent and Trademark Office. As director, he is  
16 responsible for managing the work of several hundred  
17 examiners who review patent applications for compliance  
18 with statutory requirements for patentability in the area  
19 of data processing, e-commerce and cryptography.  
20 Mr. Love has also served as Chairman of the Supervisory  
21 Patent Examiners and Classifiers Organization and has  
22 been awarded many Department of Commerce awards for his  
23 work at the Patent Office.

24 Next we have Rick Nydegger, who is a founding  
25 partner at Workman, Nydegger and Seeley, conducting IP



1 matters for many of the firm's clients in the electronic  
2 software and information science, e-commerce and medical  
3 device technology areas. Mr. Nydegger was invited in  
4 1999 to become a member of the National Patent Board, a  
5 non-profit entity founded to provide access to  
6 experienced IP attorneys for mediating patent disputes,  
7 and he has also served as an arbitrator.

8               Next we have John Place, who is the Executive  
9 Director of the Center for Internet and Society at  
10 Stanford Law School, a policy center dedicated to  
11 exploring the impact of the Internet on law and society.  
12 Mr. Place is a former Vice President, General Counsel and  
13 Secretary of Yahoo!, the first in-house attorney Yahoo!  
14 hired. And before joining Yahoo! Mr. Place was senior  
15 corporate counsel at Adobe Systems. The *Los Angeles*  
16 *Daily Journal* has named him one of the 100 most  
17 influential attorneys in California.

18               Next we have Carl Shapiro. He is a professor  
19 here at the Haas School of Business and is Director of  
20 the Institute of Business and Economic Research and  
21 Professor of Economics in the Economics Department at  
22 UC Berkeley. He has also had a public service career.  
23 He served as Deputy Assistant Attorney General for  
24 Economics in the Antitrust Division of the U.S.  
25 Department of Justice during 1995 to '96. His current

1 research interests include antitrust economics,  
2 intellectual property and licensing, product standards  
3 and compatibility and the economics of networks and  
4 interconnection.

5 And next we have Robert Taylor, who is Managing  
6 Partner of the Silicon Valley office of Howrey, Simon,  
7 Arnold and White. For more than 25 years he has  
8 specialized in patent and antitrust litigation and  
9 related fields of law. His experience covers all aspects  
10 of litigation in these areas. He is the former Chair of  
11 the Antitrust Section of the ABA. He was also a member  
12 of the Advisory Commission on Patent Law Reform, whose  
13 report was presented to the U.S. Secretary of Commerce in  
14 August, 1992, proposing changes to patent laws.

15 Next is David Teece, who is participating with  
16 us once again today. He is an applied industrial  
17 organization economist and an economics professor here at  
18 the Haas School of Business. He has testified before  
19 Congress and government agencies on regulatory,  
20 technology and antitrust policy, and has authored over  
21 150 books and articles.

22 Additionally, we have Les Weinstein. He is the  
23 Senior Litigation Partner at Squire, Sanders and Dempsey,  
24 focusing on patent and antitrust matters. He counsels  
25 technology clients in a wide variety of fields including

1 chemical, pharmaceutical, electronics and telecom  
2 industries. He began his legal career as the first U.S.  
3 Patent and Trademark Office registered patent lawyer  
4 employed by the U.S. Department of Justice Antitrust  
5 Division.

6 And we have an unfortunate omission. Katherine  
7 Ku, the Director of the Office of Technology Licensing at  
8 Stanford University, is not able to join us, which is  
9 unfortunate, but we are really delighted to have in her  
10 place Luis Mejia. He is the Senior Associate in the  
11 Office of Technology Licensing at Stanford. He has been  
12 at Stanford for 14 years and has negotiated over 200  
13 license agreements. He has a Bachelors of Science and  
14 Mechanical Engineering from Arizona State University, and  
15 has been the co-founder of several Silicon Valley startup  
16 companies. He has spoken internationally on many  
17 occasions on the topic of technology transfer at  
18 universities. Most recently, he was keynote speaker at  
19 the Ericsson Innovation Awards at Canberra, Australia.

20 Well, it took a while. Fantastic panel. Thank  
21 you all so much for joining us.

22 Let's see. In terms of logistics, we're going  
23 to have three presentations, then we're going to have  
24 discussion, then we're going to have two presentations,  
25 and then we're going to have a break. Then we'll have a

1 couple more presentations and then a discussion.

2 The bottom line is that I realize that the  
3 numbers don't add up. Several of the panelists who are  
4 joining us today were kind enough to forego a formal  
5 presentation on the assumption that our discussion would  
6 be an adequate vehicle for them to get their ideas out.  
7 And what I can say is: we know who you are, and so while  
8 everybody else needs to tilt up their table tent like  
9 this to let me know that you have a comment to make, I  
10 want to make sure that those people who won't be giving  
11 formal presentations just throw their table tents at me.  
12 I really want to make sure that you have your points  
13 adequately included. Okay, so here we begin.

14 We talk about the social trade-offs that are  
15 inherent in the patent system, and what we have is you  
16 have disclosure, and what you get from the disclosure is  
17 a right to exclude. As a result of that, we as a society  
18 are hopefully promoting innovation.

19 What we're going to be looking at today is, as  
20 a practical matter, what does it mean to implement that  
21 trade-off? What are the consequences of how we choose to  
22 implement that trade-off? Step one in this process of  
23 implementing the trade-off is clearly the patent  
24 application or the grant process. Our first three  
25 presentations will focus directly on that process, and

1       then we'll have some discussion. And then we will expand  
2       our inquiry into how the patentee uses the rights once  
3       acquired, and part of that will be the litigation that  
4       invariably, or at least frequently, ensues.

5               So why don't I turn now to our first  
6       presentation by Les Weinstein.

7               MR. WEINSTEIN: Thank you. Can you hear me in  
8       the back? You may want to change places with people that  
9       can't.

10              First I need a standard disclaimer. I do not  
11       speak for my law firm, my partners or my clients. I come  
12       here today speaking on my own, drawing on my experience  
13       in the middle of the last century as patent examiner, as  
14       an antitrust lawyer, and now increasingly involved in the  
15       patent antitrust interface.

16              For those of you who are interested, more  
17       extensive remarks and some suggestions about the problems  
18       that need to be remedied are going to be available on the  
19       FTC's website. I'm going to focus on a couple of points  
20       today.

21              I want to compliment the Justice Department and  
22       the FTC for this very important step. This is something  
23       that is essential to our economy, and you're to get high  
24       praise for undertaking this work.

25              I am deeply concerned with the way the patent

1       system is functioning today. My view of it is that we  
2       are no longer granting patents on inventions, we are  
3       granting patents on investment. And that's a policy the  
4       country can make, but it would be much more efficient to  
5       do it through tax policy rather than handing out --  
6       through the examination process with all of its  
7       imperfections -- patents which are also clubs, and I'll  
8       come to the nature of those clubs in a moment.

9               They're clubs to drive people out of business.  
10       They can be clubs used to destroy their investment. The  
11       exclusionary power of a patent, as Kodak found out a few  
12       years back when it lost \$900 million because it made a  
13       "mistake" can be very powerful in how our economy is  
14       effected.

15              Now, in fairness to the Patent Office, which is  
16       often everybody's current whipping boy, it's fair to  
17       recognize that the Patent Office is caught often between:  
18       the dictates of the Court of Appeals for the Federal  
19       Circuit which is expanding what can be patented, the  
20       statutes our Congress has passed through whatever  
21       legislative process goes on commanding them to do certain  
22       things; and its own shortcomings in budget and  
23       occasionally in talent. So I do not want you to think  
24       that I'm here to bash the Patent Office particularly, but  
25       to talk about how the system works.

1           The problem as I see it is that we are issuing  
2           too many patents with too many claims, each of which is  
3           an individual patent as a practical matter that cannot be  
4           understood. We are told that a patent is like a deed to  
5           property or like a statute, that it's supposed to warn  
6           people as to what is forbidden. Yet in almost every case  
7           now, millions of dollars are spent and certainly hundreds  
8           of thousands in Markman hearings so a judge that is  
9           reversed about 50 percent of the time, can tell people  
10          what that patent means. Something is wrong with that  
11          system.

12                 There are patents that come out today with  
13          hundreds of claims, unintelligible to almost anyone  
14          except the people who drew them. And yet, people who  
15          violate them jeopardize sometimes a lifetime of  
16          investment or their division or their product. That  
17          system doesn't work well to spur innovation or carry out  
18          the constitutional mandate.

19                 Indeed, for those of you who were here this  
20          morning and listened to the people in the software  
21          industry talk about how threatening this is to their  
22          businesses, as I see it, patents today are often  
23          entrenching the established at the expense of allowing  
24          the newcomer to come in. I question today whether a  
25          Steve Jobs could start an Apple or a Bill Gates could

1 start a Microsoft in view of the web and thicket of  
2 patents that is out there. Let me give you just a couple  
3 of quick examples.

4 I was in the ski shop the other day and I was  
5 interested in buying an orthotic for my ski boot, and I  
6 spotted this little card here saying it's covered by 38  
7 patents. Now, that's very interesting because, as it  
8 turns out, a competitor only needed 1 to protect its own  
9 device.

10 Now, I'm not faulting this company. It merely  
11 took advantage of the system. I'm not faulting any  
12 company that is playing by the rules. The question is,  
13 do the rules work?

14 Again, this morning those of you were here  
15 heard Jim Pooley say don't jump on patents until you read  
16 the claims, don't take anecdotal evidence. Let me read  
17 you a claim here of a recently issued patent by four  
18 inventors of IBM.

19 "A method for providing  
20 reservations for restroom use,  
21 comprising receiving a reservation  
22 request from a user and notifying  
23 the user when the restroom is  
24 available for his or her use."

25 You know, if you say to this flight attendant,



1 "Please tell me when the bathroom is available," you're  
2 all probably infringers. This patent has in it 64 claims  
3 by 4 inventors. It goes on to make a real contribution,  
4 though, because it suggests in one of the alternative  
5 claims that you could schedule people by either the price  
6 of their ticket or their frequent flier miles status.

7 Now, let me tell you that similar things are  
8 going on with laser technology, going on with  
9 semiconductors and microprocessors. And this is a  
10 burden, this is a drag on our economy and we need to  
11 figure out some way to fix it.

12 MS. GREENE: Right. And we're going to move on  
13 to our next presenter, and we'll be coming back to you  
14 and hopefully figuring out ways in which we can, quote,  
15 "fix it." Our next presenter will be Greg Aharonian.

16 MR. AHARONIAN: Well, since I'm going to blame  
17 the lawyers I suppose we can fix it by getting rid of the  
18 patent lawyers.

19 My problem is as follows. I'm not a lawyer, so  
20 when I hear a lot of these words I have to kind of define  
21 them in my mind. When I hear the word 'antitrust' I'm  
22 sure there are a lot of legal rules in Washington about  
23 what exactly that means, but in my mind it's someone who  
24 abuses the spirit of the system and not actually any  
25 particular law.

1           A couple big businesses chit-chatting over some  
2           drinks somewhere could probably do it discretely enough  
3           to not violate any laws but end up somehow abusing the  
4           system in some way. To me that's not so much antitrust  
5           but against trust, to abuse the trust of the public, of  
6           their peers, whatever. So to me, I mean, what's at  
7           interest to me in the patent system is the abuse of trust  
8           that goes on, assuming there is any.

9           Now, to me, I have no problem with someone with  
10          a good patent, developed patent with a new invention,  
11          being as nasty as he wants. I suppose that's kind of the  
12          fun of the game and the reward of actually coming up with  
13          something new. I mean, I think there's very little new  
14          to be discovered and I think the person who does discover  
15          something new should be able to have as much fun as he  
16          wants with it, or her.

17          My problem is with the quality of the patents.  
18          There are just too many patents, as Les and many other  
19          people have stated, that are just plain bad; and I blame  
20          a lot of it on the applicants themselves and their  
21          lawyers.

22          Certainly, I've bashed the Patent Office many  
23          times over the years, and I think there's much they could  
24          do to improve their operations, but they are hamstrung in  
25          many ways by politics and budgets and things like that.

1 But what gets me is just kind of the cavalier attitude of  
2 a lot of patent applicants, especially the corporations.

3 I've passed out, in the back of the room if you  
4 don't have a copy, some statistics I've gathered on  
5 computing patents, which is my field of expertise, and  
6 the numbers, I think, are quite interesting. The data  
7 ranges from 1976 to 2001, so it's a very long time  
8 period. It stretches the Internet period and it  
9 stretches over the '70's and early '80's when a lot of  
10 the formative technologies that now are part of the  
11 Internet and other areas were being developed.

12 I mean, you see some interesting things. We go  
13 from a few thousand patents in the early '80's to upwards  
14 of seventeen to twenty thousand computing patents a year  
15 being issued now. And I mean, frankly there's just not  
16 that much innovation out there to justify that kind of  
17 rise.

18 One of the reasons why so many patents are  
19 issuing is that the Patent Office really has no choice.  
20 The examiners are obligated to pretty much process a  
21 patent application in two passes so that at the end of  
22 the second pass if they have no more ammunition to use  
23 against a patent, they pretty much have to issue  
24 something.

25 And the problem is that you look at one column

1       there, Number OREF, and the second column, Percent ZREF.  
2       What that translates into is the number of non-patent  
3       prior art references cited on the average patent is the  
4       number of OREF. And percent ZREF is the number of  
5       patents that cite no non-patent prior art at all.

6               Now, in the computing field as of today there  
7       are probably about ten million publications in the  
8       general area of computing. There are major  
9       organizations, IEEE, the ACM, that have hundreds of  
10      conferences and journals every year with thousands of  
11      pages in each one. You walk into any engineering library  
12      around the country and all you'll hear is the librarians  
13      complaining about not having enough room on their shelves  
14      for more books, more conferences, more papers. So that  
15      for a computing patent today hitting the Patent Office, I  
16      would say that there are about ten million potential  
17      pieces of prior art that might be asserted against it.  
18      Now, the vast majority of them are in different fields of  
19      computing. I mean, a patent on a graphics technique will  
20      have no prior art in the database area.

21              But the fact that over half of all patents  
22      issuing cite none of this prior art to me is abominable.  
23      And the reason is that the corporations and the  
24      applicants aren't doing any searching because they're not  
25      obligated to. The problem then is that the examiners,

1       who everyone knows are overworked and under-resourced,  
2       they don't have time to go out and seek that prior art.  
3       The end result is that they have to issue patents on  
4       ludicrous ideas like a reservation for an airline  
5       restroom because they don't have the specific information  
6       on hand to properly issue a rejection.

7               So the solution is quite clear, it's to stiffen  
8       the search requirements for applicants. Rule 56 -- which  
9       is an obligation on applicants to disclose what they know  
10      but not to search what they know exists -- to me, is a  
11      total joke of a rule. It allows companies, especially  
12      large companies like an IBM which brags about having the  
13      biggest databases on the planet and the best search  
14      engines in the universe, to then say, "Oh no, we don't  
15      know how to find out anything, only apply for our  
16      patents." I mean, come on, give me a break.

17             The other problem is that right-hand column,  
18      Percent Jepson. For patent applications there's a  
19      language you can use in the patent claims and there's a  
20      certain phrase that appears occasionally, "the  
21      improvement comprising." Now, if any of you use software  
22      or any technology, almost anything you see coming out new  
23      on the marketplace is an improvement on something else.

24             I mean, there are few truly revolutionary ideas  
25      anymore that are just so new that they're not an

1 improvement on anything. So, I mean, to someone who's  
2 naive to all this you would think that every patent claim  
3 where someone's claiming what it is they've invented  
4 would first say, "Here's my improvement over the existing  
5 art," so that we could then focus, for example in Markman  
6 hearings and other such venues, on what it is that's  
7 truly new that someone might be infringing. So you'd  
8 think that 80, 90 percent of the patents would be using  
9 this format if they were truly sincere.

10 Given that even amongst lawyers in fields of  
11 computing the thought is that at least half the patents  
12 are invalid and, therefore, they're an improvement on  
13 nothing. And, yet, over the last 20 years we see the use  
14 of this format dropping. Why? Because lawyers will say,  
15 "Well, if we specifically point out to the examiner what  
16 the improvement is, he'll issue us an obviousness  
17 rejection because he'll say, 'well, you have so much  
18 other stuff that everyone already knows about, your  
19 little improvement's too trivial, it's obvious, so no  
20 patent.'"

21 I can understand that, but the answer to me is  
22 to have the patent lawyer work with the Patent Office to  
23 come up with a way to, A, get their client to do more  
24 searching, to come up with some minimum search  
25 requirement that everyone would have to do, and B, to

1       come up with a way of pointing out what the improvement  
2       is so that people can focus on that.

3               So, I think there's a lot of work that can be  
4       done with the mechanics of the system itself to improve  
5       greatly the quality of the patent without imposing an  
6       undue economic burden on anyone. Applicants are now  
7       spending ten to twenty grand to get a patent issued out  
8       of the Patent Office. In bulk, decent searching could be  
9       done on all those either by the companies themselves, by  
10      people such as myself, and I do this for a business, or  
11      by giving more money to the Patent Office so they could  
12      do it. I'd estimate at the level of about \$500 on the  
13      average for a patent application. So for someone  
14      spending ten to twenty grand, and again we're talking  
15      mostly corporations in the computing field, I do not  
16      think \$500 is an undue burden to help improve the quality  
17      overall of the entire system.

18             And the result then is these issues keep on  
19      getting pushed off year by year. A lawyer down in the  
20      valley, Ron Laurie, in 1988 and 1989 gave a talk on  
21      computing patents, and this was before all this hit the  
22      press and became real big news. But even back then he  
23      was arguing, based on his experiences in the firms he was  
24      with, that 80 percent of the issued computing patents  
25      were invalid. That was, what, 14 years ago, and frankly,

1 I have seen nothing change in the subsequent time period.

2 So my concern over the past few years has been  
3 harping on this one issue. There's a lot that can be  
4 done very easily, very reasonably in terms of cost to  
5 greatly improve the quality of the patents. And I think  
6 that if applicants -- and again, if you look at one of  
7 the columns, Percent Corporation, the vast majority of  
8 these patents are going to corporations large or small.  
9 We're not talking about some guy in a basement anymore,  
10 this is corporate stuff.

11 If you really want to get a powerful weapon,  
12 the patent is -- and I have no problem with the patent  
13 being a powerful weapon -- I think you should have a  
14 higher burden to get such a weapon. But for too long the  
15 patent bar has done nothing, and the Patent Office I  
16 don't think has a chance to do much of anything.

17 What happens with all these issues? You have  
18 to go into court, spend hundreds of thousands of dollars,  
19 millions of dollars, arguing what it is that was  
20 invented, whether or not the prior art was relevant or  
21 not, in front of a jury or a judge who doesn't understand  
22 the technology, and the district court doesn't even  
23 understand the patent laws. I mean, it's a real mess,  
24 much of which could be dealt with a lot earlier in the  
25 system, but it isn't. The result is that large companies



1 and smaller companies start building up these patent  
2 thickets and they start suing people and it's hard to  
3 fight stuff like that off.

4 I myself should know. I mean, I've been sued  
5 for patent infringement on a patent that is totally  
6 worthless, and you know, spent a fair amount of my own  
7 money defending myself. In the end I think I'll prevail,  
8 but it's not something I should have been made to do.

9 And it's the type of patent that, had the  
10 applicant been required to do some searching ahead of  
11 time when he was filing for the patent, or if the patent  
12 assignee, once he got the patent but before he sued  
13 someone in court, was required to do a search.

14 I could maybe see arguing that, you know, let's  
15 not burden everyone at the patent application stage. But  
16 to be able to sue someone without doing any due diligence  
17 on the validity of your patent and hiding behind the the  
18 canard of, you know, the patent was presumed valid, I  
19 mean, again as a non-lawyer, that's silly. It may be  
20 legal, but it's not very serious.

21 So I find it funny that in this era where we  
22 have in Silicon Valley some of the brightest minds, some  
23 of the most powerful software tools, tremendous amounts  
24 of technology, some of which is being claimed, that the  
25 very process for protecting that technology, the patent

1 system, is so ineptly run.

2 I mean, how can large companies in Silicon  
3 Valley with a straight face file for these patents and  
4 not do any searching when a five-minute automobile ride  
5 from their buildings and offices to, for example, the  
6 libraries of Stanford University which are some of the  
7 best libraries on the planet, or companies here in the  
8 East Bay, to apply for a patent and not say to one of  
9 your engineers, "Get in your car, drive over there, park  
10 it somewhere, do some searching for an hour or two and  
11 then we'll throw the results into the patent  
12 application," to me is just total nonsense, it's silly.

13 MS. GREENE: Okay. Thank you so much. And  
14 we're going to have John Love give his perspective on the  
15 patenting process.

16 MR. LOVE: If I can get this up on the screen.  
17 Thank you.

18 I was also here this morning and found it very  
19 interesting to hear the different perspectives. At some  
20 times I found it difficult to sit back and not say  
21 anything. I was kind of rising up in my seat whenever  
22 the term 'PTO' was mentioned, but there is one thing I'd  
23 like to say about some comments this morning to get the  
24 record straight.

25 A comment was made that all the examiners at

1 the PTO were both attorneys and engineers. And there  
2 was, I guess, an insinuation, perhaps in jest or maybe  
3 not, but that this somehow gave them incentive to issue  
4 as many patents as they could because they were later on  
5 brought into the private practice and would be defending  
6 and suing on these patents. But I just wanted to get the  
7 record straight that the vast majority of examiners are  
8 not attorneys; a close percentage would be about ten  
9 percent have law degrees.

10 I appreciate the chance to come and give a  
11 presentation on what we're doing at the PTO to improve  
12 the quality with respect to these software and, in  
13 particular, business method applications. I'd like to  
14 give a little bit of a background here. I think most of  
15 us know this but it's been talked about indirectly and  
16 sometimes directly.

17 There are knee-jerk reactions to patents that  
18 are issued, and of course while the language may seem  
19 clear even in the claims, the claims do define the scope  
20 of the invention, but the claim interpretation is a  
21 question of law and not of fact, and what you read may  
22 not be exactly what would be interpreted to be covered by  
23 the scope of that claim. It's very complicated. Not  
24 unimaginably complicated, but it is a technical question  
25 that the courts do go through when they interpret the

1 scope of a claim. They look at the specification and the  
2 prosecution of the case that could have an effect on the  
3 narrowness or how narrow those claims are interpreted.

4 And of course, we know that the right is to  
5 exclude others from making, using or selling the  
6 invention, and in response to what Les said awhile ago  
7 about exclusivity rights, I think we need to keep in mind  
8 that the Constitution in Article 1, Section 8, talks  
9 about securing for inventors the exclusionary rights that  
10 we're talking about here, so even the founding fathers in  
11 the Constitution provided for a patent system.

12 There are many ways, and we don't pretend to be  
13 perfect at the PTO, there are many ways that third  
14 parties or others can participate in the application  
15 process both before and after a patent is granted. With  
16 the recently changed law, the AIPA, most patent  
17 applications will, in effect, be published 18 months  
18 after their filing date. After that, any member of the  
19 public has an opportunity to submit prior art to the  
20 Patent Office for our consideration.

21 Prior to that publication date, if an applicant  
22 becomes aware -- excuse me, if a member of the public  
23 somehow becomes aware of a pending application or sees  
24 that a product is stamped patent pending, they can send  
25 to the PTO what's called a protest under our rules, Rule

1       291, and include with that any information they'd like us  
2       to consider as a protest to the grant of a patent  
3       application on that particular product.

4               And we also heard this morning some discussion  
5       about the various procedures that we have after the  
6       grant. And we do have, in fact, at least four procedures  
7       whereby the validity of a patent can be brought into  
8       question after it's issued by a third party without  
9       necessarily getting involved in a, except for the fourth  
10      one there, without being a party to litigation.

11             The first is through a prior art citation as  
12      provided for in Rule 501. Any third party can submit a  
13      prior art statement and have it placed in the file of a  
14      patent. Those submissions are submitted to the group  
15      directors for review and will in fact be considered  
16      should a reexamination request be filed in another  
17      proceeding. Those prior art statements that are in the  
18      file will be considered.

19             There's an opportunity for an ex parte re-exam  
20      proceeding. Any member of the public can initiate that  
21      proceeding, and we've averaged in the last 15 or 20 years  
22      about 400 per year.

23             Also, the AIPA provided for a second type of  
24      reexamination proceeding that we call inter partes. And  
25      that's the one where there's been a lot of discussion

1       about the adverse or the estoppel effect that may be,  
2       say, a detriment or a deterrent to people using that  
3       particular process. We've only had three filed to date,  
4       but part of the reason is that it only applies to  
5       applications that have been filed after November of 2000,  
6       so there haven't been a great deal of patents that have  
7       issued since then.

8               And, of course, invalidity can be raised as a  
9       defense in litigation by a party who's being sued or in  
10      the preliminary injunction hearing.

11             As far as I know, the Patent Office, we do an  
12      internal review of the quality of our patents, and we, I  
13      believe, are the only one in the world that will publish  
14      the results that we get, our findings. And these reviews  
15      are done by staff that report directly to the  
16      Undersecretary for Commerce and they do not report to the  
17      patent core management, so we hope and we feel that this  
18      gives it a certain amount of objectivity.

19             What you see there -- at the bottom line --  
20      represents the core error rate. That means that in 5.5  
21      percent, at least in '99, of the applications that we  
22      eventually allowed, that there were 1 or more claims that  
23      our internal review found to be unpatentable for various  
24      reasons, either 102, 103 or 112 or 101.

25             The TC-2100 and 2600, TC stands for technology

1 center, these are the two technology centers that deal  
2 with what we can, I guess, imagine as software patents.  
3 There's a 95-percent chance that they would be assigned  
4 to one of these technology centers. And you can see that  
5 the error rate in those two technology centers is below  
6 the office average. In fact, last year, 2100, which I'm  
7 associated with that has the software or the e-commerce  
8 patents and the business method patents, our error rate  
9 went down substantially from '00.

10 In the year 2000, March of 2000, there was what  
11 we called the Business Methods Initiative. That was  
12 partially in response to a public concern about the  
13 quality of patents that were being issued in the business  
14 methods area, and to address those concerns we put out a  
15 rather comprehensive program to help us in the  
16 examination of these applications. The purpose of the  
17 industry outreach portion of that initiative was to help  
18 identify additional sources of non-patent literature  
19 [NPL], to provide training opportunities for examiners,  
20 and also provide a forum to discuss business method  
21 issues.

22 We are partnering with over 30 industry  
23 organizations that communicate with us and talk to us and  
24 provide us resources for training and indicating  
25 additional sources of NPL, since this initiative began.

1       These are some of the organizations that we partner with:  
2       the Information Technology Association of America,  
3       Software Industry Information Association, NACHA, BITS,  
4       and you can see the others.

5               We've had two internal partnership meetings  
6       with our customers. Representatives from these business  
7       organizations and the legal community attend and we  
8       discuss the issues that are common and important to all  
9       of us. The initial roundtable was held in July of 2000  
10      -- since I have ten minutes, I got to promise to get  
11      through here in ten minutes. We published a federal  
12      notice in the *Federal Register* where we indicated the  
13      non-patent literature sources that we examined and we  
14      asked our customers and our partners to indicate to us if  
15      they felt there were other areas that we should be  
16      looking at.

17             Part of the Director's initiatives were to  
18      create three mandatory fields of searches for the  
19      examiners. The first would be the traditional classified  
20      search for the examiners, the second would be foreign  
21      patent literature databases, and the third was that we  
22      required the examiners in the business methods area to do  
23      a non-patent literature database search.

24             Now we've identified over 900 commercial  
25      databases and we've grouped them together depending on



1       the particular technology or part of the business method  
2       area that the examiners are searching. And it's a  
3       mandatory search that they go into these commercial  
4       databases and do word technology searches on the  
5       inventions. We also have available to the examiners  
6       professional searchers who will help them go through  
7       those databases and will help them craft their search  
8       strategy and actually do the search for them if they ask  
9       for it.

10               Many of our partners have sent representatives  
11       to give us presentations on different topics. You see  
12       some of them here, and they're very well received by the  
13       examiners and they really give us a great deal of  
14       information on what the up-to-date techniques are in the  
15       industry.

16               We have a program in the PTO where we will pay  
17       for examiners to take technical courses during their  
18       non-duty hours, and we've expanded that now to take  
19       courses in finance, business and insurance so that these  
20       courses now also qualify for the type of training that we  
21       will pay for for our examiners.

22               We've revised the guidelines to take into  
23       account the State Street and the AT&T decisions, which by  
24       the way, I hope have put to bed most of the 101 issues.  
25       We're focusing now on trying to develop the best art that

1 exists as opposed to the 101 issues about eligibility. I  
2 explained this to you a little earlier -- about the fact  
3 that we have a mandatory search for all cases that are  
4 originally filed in class 705, and the examiners are  
5 required to search a document from each one of these  
6 sources of searching.

7 A unique aspect of this program that we  
8 initiated in 2000 is what we call our second level  
9 review. When an examiner gets to the point where they  
10 feel the case should be allowed, we pass that on to an  
11 experienced examiner or panel of examiners who review  
12 that case. They, first of all, review it to make sure  
13 that the searching requirements have been met. They look  
14 to make sure that reasonable allowances have been placed  
15 in that case, and they also do a basic review of the  
16 scope of the claim. If they have any questions or  
17 concerns about the scope of the claim then they'll kick  
18 it back to the examining group and we'll take a second  
19 look at it. That's in addition to our overall quality  
20 review program.

21 That is a sampling of all cases throughout the  
22 office, and since this program has been introduced, for  
23 the entire portion of '00 which included the first two  
24 quarters of '00 prior to the initiatives, the allowance  
25 rate was 55 percent. In '01 the allowance rate for class

1       705 went down to 45 percent, and that's compared to the  
2       office-wide allowance rate, which is 69 percent. The  
3       allowance rate is basically the percentage of cases that  
4       are allowed versus those that are eventually abandoned.  
5       And to give you some raw numbers of the patents that we  
6       issued in class 705 for '00, we issued 899, and the  
7       patents that we issued last year in FY '01 basically were  
8       cut in half to 433. So I hope that provides some basis  
9       later for discussions following up.

10               MS. GREENE: Why don't we have some of the  
11       discussion now?

12               MR. LOVE: Okay.

13               MS. GREENE: We've gotten several different  
14       perspectives on the patent system and how the trade-offs  
15       are working as a practical matter. Do we have anybody  
16       else that would like to comment as to what their  
17       experience has been?

18               MR. WEINSTEIN: I have a question for Mr. Love.

19               MS. GREENE: Absolutely.

20               MR. WEINSTEIN: To be candid, I'm troubled  
21       about the terms "partners" and "customers." When I was  
22       an examiner there were "practitioners" and "applicants."  
23       Shouldn't your only partner be the public in which you  
24       invite the public in to discuss these things and to talk  
25       about what is good for the public interest?

1           MR. LOVE: I think we realize that we have a  
2 duty to protect the public interest, and patent examiners  
3 have always, their job is to protect what should be  
4 protected and then not to protect that which is in the  
5 public domain.

6           And when we talk about partners we don't limit  
7 it to people that have filed patent applications. We  
8 have members of the press, we have members of academia  
9 come to us and participate.

10          MR. WEINSTEIN: Would you be happy if the FDA  
11 treated people seeking new drug applications as  
12 customers?

13          MR. LOVE: That would be a definition of a  
14 customer certainly.

15          MS. GREENE: Bob?

16          MR. TAYLOR: I have just a comment really on a  
17 couple of the points that Mr. Aharonian made. I think  
18 it's certainly contrary to my experience that companies  
19 start litigation on patents where the lawyers that are  
20 representing them haven't done a substantial amount of  
21 due diligence, because you can spend a very large amount  
22 of money as the plaintiff in a patent case. And to get  
23 to the end of a patent case and have a court say that  
24 that patent is invalid, particularly because of prior art  
25 that surfaced that you could have found, is not something

1       that any of my clients would tolerate for very long.  
2       They're very insistent that we know, as best we can  
3       determine before we start those lawsuits, that we're  
4       going to prevail at the end of the day.

5               I also had a question perhaps of Mr. Love,  
6       because I think Mr. Aharonian makes a fairly good point  
7       that when you analyze the software patents the Patent  
8       Office doesn't seem to be using the non-patent database  
9       information as much as it might.

10              When the Commission on Patent Law Reform sat  
11      ten years ago now, one of the suggestions that was made  
12      to the Commission over and over again by people in the  
13      business was that the Patent Office really does need to  
14      create its own database for the very reason that  
15      Mr. Aharonian mentioned -- that the technology develops  
16      so rapidly that you really are not going to find in the  
17      patent database the real prior art -- and I'd just be  
18      interested in a comment as to where that's going.

19                      (Tape Three, Side B)

20              MR. LOVE:  -- we are relying on commercial  
21      databases.  And as I said, we have over 900 that are  
22      available to the examiners.  They have a terminal on  
23      their desk that they can access these databases and  
24      they're encouraged to use it.

25              I think we perhaps have a ways to go, but at

1       least the numbers show that we're going in the right  
2       direction, and in fact, in the business methods area it's  
3       a mandatory search right now. I would like to be able to  
4       say that 100 percent of the cases that issue in 705 will  
5       have at least some NPL literature cited, but I won't  
6       promise perfection.

7               MS. GREENE: Carl.

8               PROFESSOR SHAPIRO: Yes, I have a couple  
9       questions for Mr. Love as well from the perspective of  
10      somebody who's trying to listen to all this and sort out,  
11      you know, are there really a lot of bad patents out there  
12      or not and what should we do about it.

13              First, the idea of imposing search requirements  
14      on applicants, I'm wondering if PTO had a view on that.  
15      It seems like a good idea to me, I guess.

16              And the second thing, you gave some data  
17      indicating, if I saw that last slide correctly, in  
18      class 705, whatever that is, less than half the number of  
19      patents have been issued in '01 than '00. Do I take from  
20      that that you're saying that the PTO has significantly  
21      improved the quality and there were probably a good  
22      number of low quality patents issued but you hope you've  
23      gotten over that problem?

24              MR. LOVE: Getting to your first question,  
25      there's been discussion about mandatory prior art

1 searches or IDS's [Information Disclosure Statements]  
2 being submitted. I mean, it's still nothing that we're  
3 advocating at the current time. Certainly Rule 56 is  
4 there. One of the methods that we encourage of complying  
5 with that is submitting a prior art statement or an  
6 information disclosure statement, so that's one way of  
7 complying with your duty of disclosure.

8 With respect to the numbers, I guess they speak  
9 for themselves. We understood that there were concerns  
10 about the quality of the patents that were being issued  
11 in the late '90's; and with the increase in the awareness  
12 of business methods as a viable form of patent protection  
13 as a result of the State Street decision, we felt it was  
14 important to take these initiatives. And certainly I  
15 guess the squeaky wheel gets the oil and the squeak goes  
16 away. So the fact that there are fewer patents in '01  
17 than were issued in '00, I think is an indication that  
18 we're at least searching harder for prior art in these  
19 cases and we hope that we're getting the claims narrowed  
20 to the point of where they should be to protect the real  
21 invention and the contribution to the art.

22 MS. GREENE: John.

23 MR. PLACE: First I've got to make a  
24 disclaimer. I'm not a patent attorney, I'm way not smart  
25 enough for that, but the perspective that I can bring to

1 the discussion is as one who has had to manage through  
2 this patent environment for a company, and I have some  
3 experience as to how the patent environment influences a  
4 company's behavior and influences how it allocates its  
5 resources. Just to comment on a few things that have  
6 been mentioned here.

7 It could be, if I recall the slide on the  
8 patents allowed in '00 versus '01, it seemed like the  
9 percentage allowed had gone down, but if you extrapolate  
10 those numbers it seems like the number of applications is  
11 much more in '01 as well. Is that correct?

12 MR. LOVE: Well, the number of examiners also  
13 has increased significantly from '00 to '01, and then the  
14 filings tripled from '98 to '99.

15 MR. PLACE: Okay. But the filings were, it  
16 seems like they were significantly less from '01 to '00.  
17 Is that if you extrapolate those numbers?

18 MR. LOVE: That were issued. Yeah.

19 MR. PLACE: Oh, okay.

20 MR. LOVE: Yeah, these were the issued patents,  
21 but the filings have gone up.

22 MR. PLACE: I'm just looking at the allowance  
23 rate.

24 MR. LOVE: Right, yeah.

25 MR. PLACE: And if you take the allowance rate



1 -- I'm just wondering if my premise is correct, because  
2 if that's the case, if there are significantly fewer  
3 number of patents applied for in '01 and that's the main  
4 impact on the raw number allowed -- it could be because a  
5 lot of the so-called business method patents have been  
6 filed by Internet startups and other companies that were  
7 in a much different financial position in '01 than they  
8 were in '00 and their financial backers, either venture  
9 capitalists, et cetera, they didn't want their companies  
10 spending their resources on patent applications.

11 MALE VOICE: It takes longer than a year to  
12 process a patent. It's not an automatic cycle.

13 MR. PLACE: All right, fair enough. Just a  
14 thought.

15 With respect to who does the searching on prior  
16 art, what has been my experience -- and I don't know what  
17 the right answer to that is because, again, I'm not a  
18 member of the patent bar -- but how it impacts companies  
19 is you get a patent claim and all of a sudden you have to  
20 marshall all kinds of resources, and the most precious  
21 resource of a small company or a medium-sized company is  
22 not necessarily cash, it's engineering resources.

23 Engineering resources are far more precious in  
24 many cases than cash, and you'd have to divert a  
25 significant amount of engineering resources, especially

1 in the Internet space, to go out, marshall all their  
2 contacts, spend a lot of time digging up all the prior  
3 art that they can. And so there's a shift, the burden  
4 and the cost of finding the prior art is shifted to the  
5 potential defendant. Again, don't know whether there's a  
6 better system, but that's been my experience how it works  
7 now. And the soft costs, i.e., the engineering resources  
8 that are diverted from actually being productive and  
9 actually building products and actually making a business  
10 run, they're diverted now to defending a patent claim.

11 There's another diversion of engineering  
12 resources that we can talk about when we get into the  
13 business aspects. Again, I'm not a patent attorney but I  
14 have worked with many, both in-house such as  
15 Mr. Chaikovsky from this morning and with a multitude of  
16 outside patent counsels, and so I've taken the liberty of  
17 canvassing some of them and asking them what certain  
18 problems might be and what certain solutions might be.  
19 And with respect to the qualification of the examiners,  
20 one idea that was presented is, if I understand it -- and  
21 again, correct me if I'm wrong, it's not my field -- in  
22 the past, software engineers couldn't be examiners, and  
23 that was relaxed.

24 To really understand the prior art in certain  
25 business method patents -- and again, I understand when

1       you talk about business method patents that can be a  
2       fuzzy line -- but to really understand the prior art in  
3       the Internet space and the business method patent, you  
4       sort of have to be of that space, and in many cases  
5       having a business background is very helpful. So one  
6       idea that has been mentioned by a couple of my contacts  
7       in the patent bar is, well gee, maybe we don't require  
8       everyone to have an engineering degree. Maybe we allow  
9       people from other backgrounds, other business  
10      backgrounds, maybe finance degrees.

11               And then you could say, "Well, why don't we get  
12      people who both have a finance background and an  
13      engineering background?" But if you look at that,  
14      someone who's got an EE and an MBA is going to be an  
15      incredibly valuable commodity and because of the  
16      opportunity cost of working for the Patent Office it is  
17      probably not going to get a large number of people.

18               MS. GREENE: Okay, you've raised a really  
19      interesting way of thinking in terms of where are we  
20      placing the burden. Where does the burden lie? Who's  
21      capable of handling it better? How much cost does it  
22      impose? As the session wears on we're going to see that  
23      part of the allocation of burden question up front may be  
24      connected to what are the costs and benefits down the  
25      line. Because obviously the patent application process

1 is -- we're just starting at the beginning. And then  
2 we're going to look at the way that it's used and the  
3 litigation that often results. So these are our three  
4 last comments for this session and then we will switch to  
5 some more presentations. Greg?

6 MR. AHARONIAN: I have a comment to Robert and  
7 then a question for John.

8 I actually want to take back what I said. I  
9 didn't want to tar and feather all law firms or all  
10 applicants. There are law firms that do exactly what you  
11 say, make sure working with their clients that their  
12 clients do have some good stuff to assert, and also work  
13 with their clients to help them fight off the bad stuff.  
14 But there are other law firms that don't, so there are  
15 good apples and bad apples.

16 As I mentioned in my Patent News, when I got  
17 sued I turned to one of the best firms in the business,  
18 your firm, to help defend me, so you know, I understand  
19 completely. I am constantly asked by inventors and stuff  
20 for what law firms to use, and you know, I have a list of  
21 firms that I think are very excellent and I give them  
22 their names all the time, including yours.

23 MS. GREENE: We'll stipulate that there are  
24 some good law firms.

25 MR. AHARONIAN: I suppose I've kind of lamented

1 over the years that the good law firms and the good  
2 lawyers really haven't done more to crack down on their  
3 bad brethren. I mean, there are some firms out there  
4 that working with their clients are just bad and, you  
5 know, should be kind of stomped out.

6 MALE VOICE: Bad people.

7 MR. AHARONIAN: Now, as I said, I've done  
8 invalidity studies on close to 500 software, Internet and  
9 business method patents in the last 5 or 6 years, pretty  
10 much working with all the firms here at one point or  
11 another and many others. I have no problem, because in  
12 many cases it's my money on the line, if someone asks me  
13 to do a search and in the end I really don't find  
14 anything of any thrilling value. I probably won't end up  
15 charging on that particular search. But when people call  
16 me up to do a search, lately they've been calling me up  
17 with batches of five patents to bust. I don't know why  
18 but it just seems they come in clumps in five. I think  
19 it has something to do with IBM. IBM for many years  
20 liked to throw five patents at people, and I think other  
21 people are picking up on that.

22 And when I get ready to do the searching and  
23 start planning to allocate time and anticipate income, I  
24 figure I'm going to collect on four out of the five  
25 patents. That is, I'm going to find some really good

1 prior art that takes down one or more independent claims  
2 out of four of the five patents. It's pretty much held  
3 up like that for about eight or nine years, and it  
4 certainly is consistent with what Ron was saying back in  
5 the '80's, that about eighty percent of the issued  
6 patents in the computing business have one or more  
7 independent claims that are invalid on one of two grounds  
8 if not one of three grounds.

9 Now, I routinely do surveys out of my  
10 newsletter of what everyone in the business thinks just  
11 based on their impressions of the invalidity rate.  
12 Typically, when I get hundreds of responses from lawyers,  
13 academics and inventors from the computing field, it's  
14 upwards of 60 percent, 80 percent of the issued patents  
15 have 1 or more independent claims that are invalid.

16 So it concerns me that, oh, the many years I've  
17 been sending out my data that I've repeatedly heard  
18 Patent Office officials, John now and Jerry before him,  
19 saying that by their internal measures they're getting  
20 about a 5 to 10 percent error rate on having 1 or more  
21 claims of an invalid nature, and it makes me continually  
22 question exactly how the Patent Office does measure their  
23 quality internally. And given the endless accounting  
24 scandals all over the place where internal controls were  
25 violated and ignored, it seems to me that it's due now

1       that the patent system have an independent outside  
2       assessment of the patent examination process.

3               MS. GREENE:   Okay.   And now I want to switch to  
4       someone else.   Les?

5               MR. WEINSTEIN:   I want to ask Mr. Love another  
6       question.   I have some question about your statistics.  
7       When I take a patent prosecutor out and buy him a  
8       martini, they tell me that it's almost malpractice not to  
9       get a patent issued.   And what they tell me is that when  
10      you take out the mom-and-pops and the nonestablishment  
11      applications and subtract from that the odious practice  
12      of filing continuation after continuation, which you take  
13      credit for, that the actual issue rate at the corporate  
14      level approaches 90 percent.   And I've seen studies to  
15      that effect.   Is there merit to that?

16              MR. LOVE:   I'd have to see the data you're  
17      referring to.   Believe me, we're not happy with  
18      continuations either, because they do add to the  
19      workload.

20              MR. WEINSTEIN:   But you have not looked at any  
21      data to determine what the issue rate is for the Fortune  
22      500 or Fortune 100?

23              MR. LOVE:   Our statistics don't take into  
24      account the characterization of the applicant, if that's  
25      what you're asking.

1           MR. WEINSTEIN: Take a look at Mr. Quillen's  
2 study which is part of this record. You'll see that his  
3 statistics, which are pretty good, looks like it's  
4 90 percent issuance rate.

5           MS. GREENE: Okay. I see that we have  
6 two more folks teed up to speak, Bob and Luis. Let me  
7 just throw out on the table the question of, and you can  
8 address whatever you want, but we've got this idea of  
9 what obligation could or should be imposed in terms of  
10 search?

11          MR. AHARONIAN: Actually --

12          MS. GREENE: If you did -- one second. If you  
13 did have some sort of search requirement, what would be  
14 limiting principles for that, and how would that be  
15 converted into practice? Because I think that the  
16 translation mechanisms of the aspirational goal of what  
17 we want to achieve in terms of how do we actually get it  
18 out of any institution is interesting and I'm curious to  
19 hear what you all have experienced and what you think it  
20 should be.

21                 Is this going to be fast?

22          MR. AHARONIAN: Yeah. Mine was a question to  
23 John, does he think we should have an independent outside  
24 review of their quality?

25          MR. LOVE: Well, I think you ought to ask



1 Mr. Rogan about that, how he feels about it.

2 MS. GREENE: Okay.

3 MR. LOVE: We administer the laws as Congress  
4 sees fit.

5 MS. GREENE: Bob?

6 MR. TAYLOR: I'll address the question you put  
7 on the table and save for a later time the point I was  
8 going to make.

9 MS. GREENE: Okay.

10 MR. TAYLOR: It seems to me that the biggest  
11 difficulty with imposing a search requirement on anyone  
12 who comes to the Patent Office, there are two aspects of  
13 it and they're both problematic. One, the vast bulk of  
14 patents that get issued really never have any economic  
15 significance. And so if you add to the cost of getting a  
16 patent several dozen hours or numbers of hours of  
17 engineer time, you really just impose a burden which  
18 really is just an additional cost of getting a patent on  
19 a company. That's the first point.

20 MS. GREENE: Okay.

21 MR. TAYLOR: The second point, and I think it's  
22 perhaps the most difficult one, is the task of policing.  
23 How do you know whether someone has lived up to their  
24 responsibilities? Right now the state of the law is that  
25 if an inventor or the lawyer who represents the inventor

1       in the Patent Office can be shown to have known about a  
2       piece of prior art and if, with an intent to deceive the  
3       Patent Office, they failed to call that to the attention  
4       of the Patent Office, then that's regarded as a violation  
5       of Rule 56, inequitable conduct, and the patent is  
6       unenforceable.

7               There's a specific intent requirement. And we  
8       get into the things that keep trial lawyers in business  
9       -- which is trying to determine from the fact of  
10      nondisclosure whether the surrounding facts are such from  
11      which you can infer specific intent. You rarely get hard  
12      evidence of specific intent.

13             Now, just translate that problem as it now  
14      exists with proving inequitable conduct into an arena  
15      where you're now saying to the engineer your job is to go  
16      search. You have to go, as Greg put it, to Stanford  
17      University, and not stop at the McDonald's on the way and  
18      spend half of your five hours having a coke and a  
19      hamburger. I think it's an impossible standard to try to  
20      articulate and administer as part of the system.

21             MS. GREENE: Okay. And I'll just throw out and  
22      we'll take it up in our next session: What are the  
23      implications of what you've just said in terms of what  
24      presumptions should be attaching to the patents? And as  
25      a practical matter, what are the implications of these

1       burdens in terms of the cost to search up front or what  
2       issues or what comes out at the back end?

3               Luis?

4               MR. MEJIA: Yes, I'll make my comments very  
5       quick. First of all, costs are extremely important to  
6       universities. We generally operate our licensing  
7       operations much like an individual business unit within  
8       the university. We have to be able to justify our patent  
9       expenses by the income we generate from licensing. So,  
10      consequently, we have a different perspective on what we  
11      choose to file patent applications on.

12              The difficulty in what we do is that the  
13      inventions that we deal with are very early stage.  
14      Oftentimes they're ten, sometimes twenty years, ahead of  
15      their time before they're possibly commercializable, so  
16      costs are very important to us. Some of the current  
17      changes in the Patent Office, I think, have led to more  
18      complicated and costly prosecution. One thing that I've  
19      noticed recently is an increase in the number of  
20      restriction requirements that we're getting. It's not  
21      uncommon now to see a restriction requirement with four  
22      or five different groups, so we're faced with having to  
23      do the possibility of four or five different patent  
24      applications to try to get claims allowed. So anything  
25      that goes to increasing the burden on universities with

1       regard to the patent prosecution process, I think will  
2       not be a welcome thing.

3               I'll address the issue of searching also  
4       because, again in an effort to try to keep our costs  
5       down, we do do searches on many occasions. Fortunately  
6       we do have the Stanford University libraries to access,  
7       but we do it because it's a cost effective means to get  
8       enforceable and strong patent applications.

9               It's a different motivation, of course, than  
10       what companies have. Companies are motivated to file  
11       patent applications for defensive purposes and to build  
12       their patent portfolio estates to increase the valuation  
13       of the companies. This is completely contrary to what  
14       universities file applications for.

15              So I guess my point in summing this up is with  
16       regard to anything that's going to increase the cost of  
17       filing patent applications and the prosecution of those,  
18       I think that would be looked at quite negatively by the  
19       university environment.

20              MS. GREENE: Okay. And you've teed us up  
21       perfectly because you're drawing the distinction about  
22       the ways in which the universities and businesses may  
23       anticipate using the patents differently. We have with  
24       us our next two speakers, two attorneys who have a lot to  
25       say about how businesses use patents, and so I'd like to

1 start with Bob Taylor.

2 MR. TAYLOR: I've got a PowerPoint presentation  
3 in my computer set up. Let me start off by saying that  
4 in preparing for this presentation today I thought very  
5 hard about how one distills remarks on a topic that could  
6 take ten hours into ten minutes, or perhaps even more  
7 than ten hours. So what I've really done is to try to  
8 hit some high points, and I'm going to move very rapidly  
9 through them and then hopefully the questions can flesh  
10 out some of the points.

11 And like Les, I have to make the same  
12 disclaimer that no one should conclude from any of my  
13 remarks that they're on behalf of either my firm or any  
14 of my clients.

15 Fundamental principles, it seems to me, are an  
16 important starting point for the work of these agencies  
17 as they think about some of the many complex issues that  
18 are on the table as a result of Chairman Muris's  
19 challenge in his November talk on this subject. The  
20 fundamental principle -- and it goes directly to  
21 something that Les said although I reach a different  
22 conclusion from it -- the fundamental principle is that  
23 reward is essential to attract capital and to attract  
24 people that are willing to undertake risk. And the  
25 patent system is for many industries, particularly those

1 with high front-end costs where their products are easily  
2 copied and attracting free riders, the patent system is  
3 an absolutely essential requirement for those companies  
4 to be in business at all.

5 I represent a small medical products company,  
6 and their objective is to make the best surgical products  
7 that are available to surgeons. They take 22 percent of  
8 their revenue stream and plow it back into R&D. And they  
9 live and they die by their patent portfolio, it's the  
10 crown jewels of the company, and there are just literally  
11 dozens of companies in the California economy and  
12 nationwide that are in that same circumstance.

13 The second point. Patents and copyrights over  
14 a long period of time have offered a proven method for  
15 measuring the reward for an innovation with the value  
16 that it brings. The vast majority of patents never get  
17 asserted, they never have any economic value. They have  
18 economic value, remember, only if there is some economic  
19 advantage of saying to someone you cannot use this  
20 invention. It is only a tiny portion of patents for  
21 which that turns out to be true.

22 Third bullet point. Much of the concern that  
23 we're hearing expressed about patents today, I think  
24 derives from a couple of industries, the drug industry  
25 being one where you see for a given product or a given

1 drug a very high level of profitability. One of the  
2 things it's important to harken back to, however, is the  
3 risk equation. High profitability for success often  
4 reflects high failure rates for people that tried and  
5 didn't succeed.

6 One of the wonderful examples from 50 or 60  
7 years ago was the wildcatter looking for oil. The  
8 wildcatter drills 9 or 10 wells that are dry before the  
9 company hits one that produces any real oil, and the oil  
10 that comes out of the 1 well that's producing has to pay  
11 for the costs of drilling those 9 dry holes or nothing  
12 happens, there's no economic incentive to do it. The  
13 drug industry is the same way; every blind alley costs  
14 money, and those do not show up in the profits that are  
15 measured by looking only at the cost of producing a given  
16 drug.

17 My final point on this fundamental principles  
18 slide is that the marriage of capital and entrepreneurial  
19 zeal in the California economy and in the nation's  
20 economy has been one of our primary engines for growth  
21 over the last 20 years. I'm going to talk a little bit  
22 about the history of the intellectual property system  
23 over a longer period of time in a second, but I want to  
24 just focus clearly on how important this marriage of  
25 capital and people willing to take risks has been. The

1 primary growth in the American economy has come out of  
2 this.

3 Before we start looking at changes that need to  
4 be made, I thought it was important to focus the agencies  
5 on a little bit of historical perspective on where we've  
6 been.

7 Early in the twentieth century, if you look  
8 back over the history of the patent system, early in the  
9 twentieth century the enactment of the Sherman Act in  
10 1890 began to dominate the thinking of courts towards  
11 what you could do with a patent. License restrictions  
12 became unlawful. As a general principle, any effort by  
13 the patent owner to capture value outside the patent was  
14 not only unsuccessful but often held to be illegal.

15 There was a case decided in the '30s called  
16 Carbice v. American Patents Development Corp. It had to  
17 do with a company that was in the carbon dioxide  
18 business, the dry ice business, and in order to create a  
19 market for their dry ice they came up with a clever  
20 two-layer box arrangement that you could stick the ice in  
21 the little space between the two boxes, and they got a  
22 patent on that. And when they tried to enforce the  
23 patent the Supreme Court of the United States said that  
24 because your patent is on a box and you're trying to use  
25 it to sell carbon dioxide, that's an extension of the



1 patent monopoly.

2 This kind of thinking just took away much of  
3 the incentive that companies had to be innovative. This  
4 company wasn't in the box business. They were in the dry  
5 ice business, and they created that box only to help them  
6 sell some dry ice. That was evidence of what throughout  
7 that period of time was an intense hostility by the  
8 Supreme Court toward all forms of intellectual property.

9 Times change. In the early 1980's, actually in  
10 the late 1970's we began to get very concerned in this  
11 country about the successes of foreign competition, the  
12 Japanese automobile industry, the German automobile  
13 industry, the Japanese and Korean electronics industries.  
14 Many industries were being afflicted by foreign  
15 competitors coming in, and in the early days of that the  
16 concern was that their labor costs were low. The steel  
17 industry, for example, said, "Well, how can we compete  
18 with these foreign competitors from Asia whose labor  
19 costs are much lower than ours?" By the end of the  
20 1970's, it was Japan and Korea primarily that were coming  
21 in with technological superiority, and that turned out to  
22 be a wake-up call.

23 In that same period of time we were seeing the  
24 rationalization of antitrust to economic principles.  
25 Market power became an important criteria before we would

1 find conduct actionable. Per se rules really were  
2 narrowed, and the primary principle was the shift from  
3 protection of competitors as an objective of antitrust to  
4 consumer welfare. All of this was accompanied by an  
5 upheaval in the treatment of intellectual property. The  
6 first harbingers you see, at least the first that I've  
7 been able to find, are the SCM v. Xerox and the Dawson v.  
8 Rohm & Haas cases.

9 In SCM v. Xerox, SCM challenged the Xerox use  
10 of its patents to maintain what had become a monopoly in  
11 plain paper electrostatic copiers. They contended that  
12 because Xerox had bought the patents from Dr. Carlson and  
13 the Battelle Institute in the early days, that that  
14 purchase of the patents with the intention of having a  
15 monopoly was illegal. And the Second Circuit could  
16 easily in an earlier time have agreed with that, but the  
17 Second Circuit to its credit took a hard look at the  
18 economics of investing in a risky new technology. And  
19 it's commendable reading for you because it lays out very  
20 clearly the risks that Dr. Carlson had to take.

21 He took that technology to every serious  
22 business products company he could find. IBM turned it  
23 down several times, and finally he got the Haloid  
24 Corporation, a little company in Rochester, New York, to  
25 make an investment in the technology and commercialize

1       it, and that company changed its name to Xerox.

2               And the Dawson v. Rohm & Haas case, the Supreme  
3       Court --

4               MS. GREENE:   What I was hoping that we could do  
5       is to switch actually to your next slide.   That's just  
6       because I have an advance copy, and I'm concerned because  
7       I really would like to have these ideas put on the table  
8       so that we can all think about them for the next bit and  
9       then have our break.

10              MR. TAYLOR:   The purpose of this slide is to  
11       recognize a couple of points -- that the reconciliation  
12       of antitrust and intellectual property is still required  
13       today despite having created a much more hospitable  
14       environment for intellectual property in the 1980's that  
15       exists today.   The two primary points on this slide that  
16       I know Hillary wants to talk about are the fact that the  
17       consumer welfare analysis, as a matter of economics, is  
18       quite different between intellectual property and  
19       traditional antitrust, and I articulate that in this way.

20              If you look at just an ordinary restraint of  
21       trade as a matter of antitrust law and you ask the  
22       question:   does this restraint diminish consumer welfare?  
23       Does it raise prices or does it diminish output.   You  
24       examine that restraint of trade on its own and you see  
25       whether that restraint in fact diminishes consumer

1 welfare. Everyone agrees, or at least most everyone  
2 agrees, that intellectual property and antitrust seek the  
3 same objective in that both seek to enhance consumer  
4 welfare, but the enhancement in intellectual property  
5 comes in a different time frame.

6 If you just look at whether or not there's an  
7 enhancement of consumer welfare to let someone enforce a  
8 patent, close down a competitor as Kodak did with  
9 Polaroid, you clearly diminish output and allow Polaroid  
10 to maintain a higher price, so that's not the time frame  
11 in which you ought to be examining this enhancement of  
12 consumer welfare. And that turns out to be a hidden  
13 problem that is very confusing to the courts that often  
14 get into this. I suspect it's one for which you all are  
15 going to struggle as agencies in trying to find a way of  
16 figuring out exactly how much diminution of consumer  
17 welfare you're willing to tolerate as part of the patent  
18 system.

19 And the second point is somewhat related. When  
20 a patent owner has a real patent monopoly as a matter of  
21 economics as did Polaroid in the time frame anyway of  
22 when Xerox [sic] was trying to get into their business --  
23 when you've got monopoly profits one of the questions  
24 that has come up over and over again, going all the way  
25 back to the General Electric case in 1926, is to what

1 extent ought antitrust policy allow the patent owner to  
2 share that monopoly profits in order to diminish the  
3 incentives of other potential competitors that might  
4 produce competing technologies? That's the question that  
5 didn't get addressed in the GE case, has never really  
6 been carefully addressed by any court that I've ever  
7 seen, and yet it is an implicit question that underlies  
8 antitrust analysis in many of these cases.

9 All right, I quit.

10 MS. GREENE: Okay. Do you have the last slide  
11 up? It's got a lot of good information.

12 MR. TAYLOR: Oh, yeah, this is an important  
13 slide. One of the things that I want the agencies to  
14 keep well in mind is when we talk about reconciling the  
15 patent system and the copyright system to principles of  
16 competition, I want you to keep well in mind that they're  
17 already defined in an effort to reconcile them.

18 John mentioned that the U.S. Constitution makes  
19 reference to the patent system and it does. It is both a  
20 sanction of the patent system, but it's also a limitation  
21 on the power of Congress to grant exclusive rights. They  
22 have to be hooked to something like progress in science  
23 and the useful arts. Going back through the Supreme  
24 Court jurisprudence, particularly that drafted by  
25 Justices Douglas and Black, you see constant references

1 to the fact that Congress couldn't create this kind of a  
2 right. The best explication of the reconciliation of the  
3 patent system with principles of competition in the early  
4 days is in Graham v. John Deere, the Supreme Court  
5 decision by Justice Clark.

6 We find competition used today in patent and  
7 copyright analysis in connection with defining the scope  
8 of what is protectable in a software copyright, for  
9 example, the Computer Associates v. Altai case, the fair  
10 use doctrine, and just recently the Ninth Circuit in Sony  
11 v. Connectix held that a competitor of the copyright  
12 owner can reverse engineer the software -- can copy the  
13 software in order to reverse engineer it and extract out  
14 the ideas that are not protectable in that.

15 You see the same thing in the patent law, you  
16 see claim construction issues being referenced back to  
17 what competitors should reasonably be able to rely upon.  
18 You see section 112 issues, particularly the definiteness  
19 issues in section 112, harkening back to what should  
20 competitors be able to construe from the history and from  
21 the patent itself. And clearly you see competitive  
22 concerns being used to shape the doctrine of equivalents.

23 My final point is that the agencies are already  
24 being heard on these points. Probably the best brief  
25 that was submitted to the Supreme Court in the Festo case

1 was the one submitted by the Solicitor General's Office  
2 in consultation with both the Patent Office and the  
3 Department of Justice.

4 So that's my final slide and I've used up all  
5 of my time.

6 MS. GREENE: Okay.

7 MR. TAYLOR: And then some.

8 MR. WEINSTEIN: -- in your reference to Kodak.  
9 Kodak got about, by my account, 400 patents on  
10 essentially the same technology. Polaroid fenced Kodak  
11 out forever. There never was competition in instant  
12 photography. Polaroid got lazy, didn't see the digital  
13 revolution coming and went bankrupt. And this is a good  
14 example of how piling patent on patent on patent deprives  
15 the public of ever getting the reward that they're  
16 supposed to get under the constitutional provision.

17 MS. GREENE: Okay. And why don't we take a  
18 break now for ten minutes and then when we get back we're  
19 going to start off with Professor Teece and then turn to  
20 Carl Shapiro, and we will address the questions of what  
21 are the implications of those patent layerings. Thanks.

22 **(Whereupon, a brief recess was taken.)**

23 MS. GREENE: Do you have your PowerPoint?  
24 Okay. Thank you for joining us again.

25 PROFESSOR TEECE: Perhaps I can begin by trying

1 to open up the concept of the patent thicket. I think  
2 we've heard today and on a number of previous occasions  
3 that there may be antitrust issues when so-called patent  
4 thickets exist. The suggestion is that when there's a  
5 lot of patents they may not only just get in the way of  
6 competition, but they may in fact get in the way of  
7 innovation itself.

8 It seems to me that these discussions are  
9 fairly superficial and that the right question to ask is  
10 not whether or not there's a patent thicket, but whether  
11 or not the patent thicket, if there is one, is  
12 undergirded by a technology thicket or not. Because it's  
13 one thing to have a patent thicket without technology,  
14 but it's quite another to have a patent thicket with  
15 technology. Needless to say, I'm not troubled by the  
16 latter but one could be troubled by the former.

17 But I'm amazed that when discussions about  
18 patent thickets take place and people complain about all  
19 of these patents, there's never much of a discussion  
20 about whether or not there's any technology; and if there  
21 isn't any technology then why isn't it easy to work  
22 around?

23 A related concept that I think is necessary to  
24 understand the patent issue in the antitrust context is  
25 the difference between patents that are complements



1       versus those that are substitutes. Many patent thickets  
2       involve a complex mixture of both. And, in fact, one  
3       with a large portfolio will probably never know what's  
4       really a substitute and what's really a complement, and  
5       perhaps it's not important to know. But, as a matter of  
6       theory, if one is cross-licensing it's almost impossible  
7       in my mind to find a way where you would ever be troubled  
8       by complementary patents being licensed in some type of  
9       cross-licensing arrangement.

10               There may be issues that arise if what is being  
11       cross-licensed is substitutes rather than complements;  
12       although just figuring out what a substitute is, as I  
13       said before, may be quite difficult. But even where  
14       substitutes are being cross-licensed it could be, for  
15       instance, that by combining substitutes you in fact  
16       create a new technology which is better than either. But  
17       the general sense here, of course, is that maybe it's  
18       better for companies not to cross-license their  
19       substitutes but to pursue them independently because that  
20       way you'll get more competition in the market. I mean, I  
21       think that is a hypothesis that's worth exploring on a  
22       case-by-case basis, but as a general matter, licensing  
23       and cross-licensing really ought not raise antitrust  
24       issues.

25               I believe that the question of royalty

1 stacking, which is a related question that frequently  
2 comes up, is perhaps of the same ilk. Here we're talking  
3 about a circumstance, and it relates to the patent  
4 thicket idea, where there are multiple bits of  
5 intellectual property that are needed to bring a product  
6 to market. And of course if every owner of every bit  
7 wants a five-percent royalty, you can't make it if  
8 there's fifty patents. And indeed, in a fairly simple  
9 product like a personal computer, I think someone  
10 mentioned yesterday there are literally hundreds, if not  
11 thousands, of patents. So the royalty stacking problem  
12 arises, in theory at least, if you have a variety of  
13 parties who are each asking for their piece of the action  
14 in the way of a royalty, and the stacking of one royalty  
15 claim on top of another overburdens the technology and  
16 the technology fails. That's the concern.

17 Question: Is this an antitrust problem? Well,  
18 I think it's important to ask what is the generic problem  
19 underlying this and is it unique to intellectual  
20 property, and I think the answer is no. You see exactly  
21 the same problem in many other contexts. For instance,  
22 if I'm a real estate developer and I want to develop a  
23 block of city property, the guy with the holdout lot may  
24 screw up my opportunity to develop the entire block, but  
25 in such circumstances one typically doesn't go to the

1 Federal Trade Commission nor the Department of Justice  
2 and seek relief.

3 Is it different with respect to intellectual  
4 property? If someone's holding out on a patent that's  
5 important for development, should the agencies and should  
6 the antitrust laws be involved? I think it's a bit more  
7 complicated than the urban development example I gave  
8 you, but the principles are similar. If there are  
9 alternative technologies, then clearly there is no issue.

10 And, in general, these things tend to get  
11 worked through so long as you've got rational actors who  
12 are aware of the fact that there are other parties  
13 claiming value from their intellectual property. So the  
14 concerns only really arise if you have negotiation that  
15 is for some reason socially inefficient, but if people  
16 are rational and are aware of the other bits of  
17 intellectual property around, these problems should get  
18 solved. So there may be transactions cost issues here,  
19 but it's hard for me to see that there is a competition  
20 policy problem.

21 Let me use that as a basis to circle back to  
22 this whole question of patent breadth. We've heard, I  
23 think for the last three days about the saga of the  
24 patent that's supposedly too broad, and the Patent Office  
25 takes it on the chin for supposedly granting patents that

1       are too broad. I think we must recognize that there may  
2       be patents that are too narrow as well, but the people  
3       that don't get granted patents that are broad enough  
4       don't come forward and complain. So the political  
5       economy of this process is one where people that have to  
6       pay to people that have patents that are too broad  
7       typically show up, and those that get patents that are  
8       too narrow you typically don't hear from.

9               But clearly the sweet spot here is to align the  
10       scope of the patent with the scope of the invention. And  
11       what of course we all seek and I trust what the Patent  
12       Office tries to do is to conceptually end up there on the  
13       45-degree line, but if you listen to some people, they  
14       don't want patents to be issued on that 45-degree line as  
15       clearly as someplace lower than that.

16              Well, how should the Patent Office deal with  
17       this or how should the antitrust authorities deal with  
18       it? Well, it seems to me that if there's an antitrust  
19       issue here at all, and I'm not sure there is, it's purely  
20       a policy one, it's certainly not an enforcement one.

21              We don't want the antitrust authorities running  
22       around playing cleanup behind the Patent Office. If  
23       there is an issue, and I'm not sure there is, it seems to  
24       me that discussions need to take place between the  
25       enforcement agencies and the Patent Office to clear it

1 up. But I think if the Federal Trade Commission or the  
2 Department of Justice jumps in directly, it simply  
3 creates additional uncertainty and, in fact, perhaps  
4 leads to a reduction in economic efficiency rather than  
5 an improvement.

6 The other point that I think needs to be made,  
7 and I think Mr. Love did an excellent job of this, is  
8 that there are mechanisms for combating the overly broad  
9 patent. When people speak about patents being overly  
10 broad they often leave you with the impression there's  
11 nothing you can do about it, but Mr. Love explained in  
12 some detail so I won't bother to go through it that at  
13 least since 1999 patent applications are thrown open to  
14 the public. You can come in and protest and try and get  
15 things changed. And of course, as was explained as well,  
16 these matters do get dealt with in litigation, although  
17 the question there, of course, is at what cost?

18 So let me just briefly talk about some of the  
19 litigation issues here, and I would draw your attention  
20 to the paper by my colleague Mark Lemley because I think  
21 he really puts in context the reality that we're looking  
22 at.

23 You know, there's over 200,000-odd patents that  
24 are issued each year, but in the end there's only about  
25 100 trials each year over patents. There's, I think

1 something like 16,000 patent suits, but 100 of these end  
2 up in court.

3 Where do you focus your attention? You know,  
4 should the Patent Office be spending lots of resources on  
5 a whole bunch of patents that are never going to see the  
6 light of day? Or should the resources be focused where  
7 the rubber meets the road on those few patents which in  
8 fact are economically important and that are the ones  
9 that get litigated around? So I think my comments here  
10 are perfectly consistent with what Bob Taylor was saying,  
11 and that is that these issues do get sorted out in court,  
12 the question is at what cost?

13 And that brings me to my final comment. You  
14 know, patent thickets have gotten a bad name, so has  
15 so-called defensive patenting. But once again, people  
16 don't really tell you what they mean by defensive  
17 patenting. I think by defensive patenting people are  
18 referring in the main to a circumstance where someone  
19 gets a patent merely for the purpose of essentially  
20 trading or exchanging or cross-licensing with somebody  
21 else. And clearly if that's the case, then you'd be  
22 better off if everyone could agree not to engage in such  
23 behavior. How one would effectuate such an arrangement  
24 of course without violating the antitrust laws is a  
25 completely different issue.

1                   But it seems to me that a defensive patent once  
2                   again is something that's in the eye of the beholder. If  
3                   a patent has to be used, then there's got to be some  
4                   technology that's underlying it, so a defensive patent  
5                   must have something underlying it, otherwise it's not  
6                   something that would ever get in the way.

7                   So my point here is that, as with the concept  
8                   of the patent thicket, the whole concept of defensive  
9                   patenting has to be blown open as well to see whether or  
10                  not there is anything that's deeply troubling with  
11                  respect to the behavior that I just described. I think  
12                  at the end of the day what one will discover is that, yes  
13                  indeed, there are some inefficiencies in the market for  
14                  know-how, that it takes a while for industries and for  
15                  the players in an industry to figure out cross-licensing  
16                  and other arrangements that will move the technology  
17                  forward.

18                  But as Hal Varian described in the first day of  
19                  these hearings, with the sewing machine industry in the  
20                  early days there were patent disputes, in the automobile  
21                  industry there were patent disputes in the early days,  
22                  with respect to radio there were patent disputes, but  
23                  some way or another, and there's a different story in  
24                  each case, these things got sorted out.

25                  And that one should indeed be concerned that

1       technology could be delayed, but the reality is that if  
2       there is reasonable clarity around intellectual property  
3       rights, people will negotiate through to solutions.  
4       That's not to say that some litigation won't be involved  
5       along the way, but all of this is to say that there may  
6       be some policy issues here, and undoubtedly there are  
7       some, that the Patent Office and the competitive  
8       authorities can work on together, but in terms of finding  
9       enforcement opportunities whereby the antitrust agencies  
10      need to go out and use the antitrust laws to fix patent  
11      problems, I think that's going to be a very, very rare  
12      circumstance.

13               MS. GREENE: Professor Shapiro.

14               PROFESSOR SHAPIRO: Thank you. Well, I come to  
15      the discussion as somebody who's spent a lot of time  
16      doing research and getting involved in some cases  
17      involving antitrust, many of which have important  
18      intellectual property rights associated with them. I  
19      would commend or encourage you to look at my website and  
20      a paper I've written about patent thickets and also on  
21      patent settlements.

22               And I'm a believer, I think, which reflects  
23      what Professor Teece just said, that some division of  
24      labor between the antitrust enforcement agencies and the  
25      PTO. Typically, at least, the standard, or certainly my



1 approach, to antitrust is to take as given the  
2 intellectual property rights and then for the antitrust  
3 analysis to then evaluate what companies are attempting  
4 to do in terms of its competition in the presence of  
5 those rights.

6 But having said that, I think that the FTC and  
7 the DOJ cannot just be neutral, as it were, with respect  
8 to changing conditions in the patent world. I mean, FTC  
9 and DOJ have always had to kind of roll with the punches,  
10 if you will, in terms of changing business conditions,  
11 whether it's additional international competition or the  
12 need to consolidate because of economies of scale.

13 I would say the changing business conditions  
14 now that are on the table and we're talking about involve  
15 significant changes in the way patents are issued and  
16 treated and used, and this is not neutral with respect to  
17 competition by any means. So in my limited time I'd like  
18 to focus on three changes in the nature and use of  
19 patents that I think are well documented and in fact have  
20 only been confirmed by the last couple days of these  
21 hearings, and I want to talk about their implications for  
22 antitrust enforcement.

23 The first change let's just call the patent  
24 thicket which we've now heard of: the increasing  
25 propensity of the patent, the increasing number of

1 patents, the defensive patenting particularly in selected  
2 industries such as we've heard and indeed some of the  
3 industries that have been represented at these hearings.  
4 So patent thicket is one.

5 The second is the fact that in more and more  
6 antitrust cases the agencies, in order to evaluate the  
7 competitive effects of what is before them, whether it's  
8 a merger or a license, need to or feel they need to  
9 assess the quality or strength of the patents that are  
10 involved in the case, and that can be a headache for the  
11 agencies and I want to talk about how they can operate in  
12 that situation. So let's call the second one the  
13 importance of patent strength in evaluating antitrust  
14 specific matters.

15 And then a third area would be the increasing  
16 number of weak patents that have been issued. And  
17 actually the fact that you can have a patent thicket does  
18 not mean there are a lot of weak patents. I think this  
19 is what David Teece said, there may be a patent thicket  
20 because there are a lot of good technology, so let's  
21 break out the third point. If we believe there are a lot  
22 of weak patents, that raises a whole set of separate  
23 questions.

24 And when I say patent strength or weakness, I  
25 would tend to define that as, if you have a patent, the

1 probability that if it gets litigated it will actually be  
2 proved to be valid and infringed, that would be its  
3 strength. So it's not a technical measure, it's  
4 something of how strong it is in the context in which the  
5 patent is being applied or considered or asserted.

6 And certainly we've heard that there's a lot of  
7 concern about there being weak patents. Again, this is  
8 nothing new historically whether we get into the sewing  
9 machine or the radio or the airplane, but it seems to me  
10 it's not a matter of indifference to the antitrust  
11 agencies if there are many weak patents being issued.

12 I would certainly be in the group that would  
13 encourage the FTC and DOJ to be part of a process working  
14 with the PTO to improve the quality of patents, and we've  
15 had that conversation today. I think we have to take it  
16 as given that there are probably a lot of low quality  
17 patents out there. Even if the PTO has improved its act,  
18 which it sounds like they're at least indicating they  
19 believe they have, there's a whole body of lower quality  
20 patents that still are out there that would be enforced  
21 for some time.

22 Okay. So the three areas. First the patent  
23 thicket. I would pose the question as, how should  
24 antitrust enforcement policy account for the presence of  
25 large numbers of patents, including potentially blocking

1 patents, in certain industries?

2 I think primarily this becomes a business  
3 issue. Companies in these industries such as  
4 semiconductors, are well aware of this problem and they  
5 have a variety of business reactions to it, primarily  
6 cross-licensing, patent pools, various licensing  
7 practices. I think I do not agree with Professor Teece  
8 that these things necessarily work themselves out in an  
9 attractive manner. Royalty stacking. Seems to me  
10 the example of the urban real estate tells us that,  
11 first, that's a real problem when you have holdout people  
12 who can prevent major development, but it's mitigated by  
13 the fact that if somebody holds out on one block you can  
14 probably go to another block and build your skyscraper.  
15 That's not going to be true if we have truly blocking  
16 patents, particularly in the context of industry  
17 standards.

18 So businesses are trying to work this out all  
19 the time. It's not a costless thing to do. I think by  
20 and large the agencies have done well to recognize the  
21 benefits of cross-licenses and patent pools, and they  
22 should affirm those benefits going forward. For example,  
23 the DOJ's treatment and business review letters in the  
24 MPEG and DVD patent pools I think were exemplary in that  
25 respect.

1           I would, in contrast, take issue with the FTC's  
2     analysis in the Intel case where they did not count as a  
3     competitive benefit the lower cost that Intel achieved  
4     through its so-called IP-for-IP strategy, where Intel  
5     hoped by trading IP they could have lower costs than  
6     having to basically pay royalties on their core products.  
7     However, I think these days we're in pretty good shape in  
8     the U.S. and I doubt the current FTC would bring the  
9     Intel case. But I might flag that the European  
10    Commission is not necessarily quite in the same camp, and  
11    I'm somewhat concerned actually about their taking a more  
12    rigid view of various restrictions such as field abuse  
13    and geographic restrictions associated with patents. But  
14    I think the patent thicket is primarily a problem for the  
15    quality of patents, and the agencies are doing a pretty  
16    good job understanding what businesses have to do in the  
17    context of the thicket.

18           Secondly, how can the DOJ and FTC enforce the  
19    antitrust laws without also coming to highly technical  
20    judgments about the strength of various patents that are  
21    central to more and more antitrust matters?

22           Here I would say let me give an example. So  
23    when Gemstar and *TV Guide* sought to merge about a year  
24    and a half ago, Gemstar was suing *TV Guide* in the area of  
25    interactive program guides, but in the face of that

1 lawsuit *TV Guide* was competing. After the two agreed to  
2 merge, Gemstar basically went in and said to the DOJ,  
3 "Look we have these patents. To the extent *TV Guide's*  
4 competing, it is illegitimate competition because they're  
5 simply infringing our patents. And, therefore, a merger  
6 that eliminates illegitimate competition should be fine.  
7 You shouldn't be in the business of preserving such  
8 infringement activity, so let us merge and get on with  
9 it." Now, of course the agency, particularly since there  
10 was a whole slug of Gemstar patents, they didn't want to  
11 have to evaluate the quality of each of these and the  
12 probability they would win and so forth.

13 I would suggest an approach where much as the  
14 agency would take in a case where there was a merger and  
15 the acquired firm came in and said, "We're about to leave  
16 the market, we're about to exit because, you know, our  
17 products, we can't keep up." The agency would look and  
18 say, "Well, by all indications out there on the market,  
19 you're competing effectively. We have no reason to think  
20 that that will change overnight, and so we're inclined to  
21 look at what you do rather than what you say in terms of  
22 predicting future competitive effects and we're not going  
23 to simply take as given that you now say you're about to  
24 exit when your documents don't support that, when your  
25 business behavior prior to the merger does not support

1       that."

2               So, on that view, one should look at the  
3       ongoing competition in the face of the patent suit that  
4       had been filed there by Gemstar against *TV Guide*, and I  
5       would not view that competition as somehow illegitimate.  
6       We don't know how the patent suit will end up, and the  
7       effects of the merger can be evaluated to a considerable  
8       degree without assessing patent strength.

9               The very same issues come up with some of the  
10      FTC generic drug cases where incumbents pay money to have  
11      challenging generic players either not enter, as in the  
12      Cipro case, or delay entry. Then one does not  
13      necessarily need to assess the strength of those  
14      underlying patents in order to evaluate the competitive  
15      effects of these arrangements. Now in other cases,  
16      cross-licenses and some pools, I think it is inevitable  
17      to evaluate patent strength.

18              So what I'm saying is with some good economic  
19      analysis the agencies can minimize the extent to which  
20      they have to be judging the strength of patents in order  
21      to do their job enforcing the antitrust laws; but they  
22      can't entirely avoid that and that's just the way it  
23      goes.

24              The third area, the presence of low quality  
25      patents, I must say I'm even more concerned about this

1       problem. I was quite concerned about it before, and  
2       being here the last couple days has just elevated that  
3       concern. One might ask how should antitrust enforcement  
4       policy be affected if many low quality patents are  
5       thought to have been issued?

6               Okay, now while I go back to my starting point,  
7       which is I don't think the antitrust agencies should be  
8       in the business of saying this patent should never have  
9       been issued, because that's the PTO's job. At the same  
10      time, if there are low quality patents, that is low  
11      strength in the sense I've defined the term, then one  
12      should be more suspicious of agreements that eliminate  
13      competition based on those patents, because competition  
14      is more likely to flourish if the patents are actually  
15      litigated because they would probably fail just by  
16      definition if it's a weak patent.

17             So in other words, just simply comparing a  
18      business arrangement, whether it's a merger or a license,  
19      we would say without this arrangement the parties might  
20      litigate. But say they would litigate and the patent  
21      would probably fail, that might open up a lot of  
22      competition. And compared with that the proposed  
23      business arrangement looks to afford less competition and  
24      less benefits to consumers. That's a legitimate  
25      comparison and is more likely to go against permitting



1       such arrangements if the patent is seen to be weak.

2               Now, in this respect again a number of lawyers  
3       I talked to say, "Well, the patent is presumed to be  
4       valid and it's a right to exclude and the patent holder  
5       should be given a lot of deference here to enter into  
6       arrangements even if they eliminate competitors, because  
7       after all that's what the patent is supposed to be for."

8               And my answer to that, and maybe this will be a  
9       pithy end to my short remarks here, would be, well, you  
10      keep hearing I guess the standard thing for IP lawyers is  
11      the patent is a right to exclude. Well, I'm going to be  
12      maybe controversial and say I disagree with that. I  
13      think the patent is not a right to exclude; the patent is  
14      a right to try to exclude.

15              If I have a patent, unless I can get a  
16      preliminary injunction, I can't get you to stop  
17      infringing what I claim is infringing. I can go to court  
18      and try. Now if the patent is very weak I may fail.

19              So all patents should not be treated as though  
20      they were an absolute exclusionary right. Some are  
21      stronger or weaker than others. And the presumption of  
22      validity should not mean that the patent is treated as an  
23      absolute right to exclude, and of course there's no  
24      presumption of infringement to begin with anyhow.

25              So I would encourage us all to think about the

1 patent not as some absolute right to exclude, but more of  
2 a probabilistic right. It may be a right to exclude or  
3 it may not be, and of course that will depend on how  
4 strong it is. Thank you.

5 MS. GREENE: Thank you very much. And just as  
6 a little point here -- many of the earlier schedules that  
7 came out said we're ending at 4:30, but we'll be  
8 continuing till 5:00 o'clock. Obviously, that's barely  
9 enough time to fit in everybody's comments, but we'll at  
10 least give it a try. And next I think we'll hear from  
11 Commissioner Leary.

12 COMMISSIONER LEARY: Thanks very much. I  
13 appreciate the opportunity to make a couple of highly  
14 individual comments here.

15 I've been interested in this interface between  
16 patent and antitrust law for as long as I've been on the  
17 Commission because I see them as essentially the flip  
18 side of the same issue, and the issue is how we weigh  
19 present effects versus future effects.

20 Bob, with respect, I disagree with your comment  
21 about the differing time lines between competition law  
22 and patent law. The incipency component of antitrust is  
23 forward looking, just like the patent laws are, and the  
24 only difference is that they're sort of upside-down. In  
25 the antitrust laws when you're looking at whether or not

1       there is some kind of an incipient antitrust violation,  
2       you're looking at some present conduct that may be benign  
3       or even pro-consumer in a static sense, that may have  
4       long-term anti-competitive effects. And to be simplistic  
5       about it and without expressing any views on the merits,  
6       that's kind of what the Microsoft case is all about.

7               The patent law is upside-down. In the patent  
8       regime what you're doing is you're saying we are willing  
9       to tolerate certain present anti-competitive,  
10      anti-consumer effects in the expectation that in the long  
11      run it will lead to pro-consumer benefits, innovation and  
12      so on, not only with these particular products but across  
13      the entire economy.

14             So in a sense they are both incipency regimes  
15      and they both involve a certain degree of wishful  
16      thinking, or in the other case pessimistic thinking, and  
17      I think the problem I have is that we don't really know a  
18      great deal about how to weigh those trade-offs. Anybody  
19      would say you have to discount future effects very  
20      heavily when you're weighing them against present effects  
21      because of the time value of money and the increased  
22      uncertainty as you go out ahead, but beyond saying that,  
23      I'm not sure I know how to do it, at least for my piece  
24      of this puzzle.

25             And it seems to me that what we're talking

1       about here, a couple years ago you may remember a  
2       responsible economist would say that the high-technology  
3       sector is different, we shouldn't have any competition  
4       rules in the high-tech sector, it's so fast moving and so  
5       on and so forth, the antitrust laws have no application.  
6       You don't hear that too much anymore. I don't know  
7       whether that's psychological as a result of the crash of  
8       the .coms or what, but we don't have that feeling of this  
9       magic mystical thing that's going to turn the economy  
10      upside-down.

11               On the other hand, I don't think that anybody  
12      in the enforcement community and I don't think that any  
13      of the critics of the current patent system sitting  
14      around this table would say that there's no role for the  
15      protection of intellectual property, so I don't think  
16      that's the issue. I don't think we need to frame it that  
17      way. Those are just straw horses on both sides.

18               The issue is what are the appropriate  
19      trade-offs and what can we do to improve the trade-offs  
20      given the best knowledge we have, recognizing that we can  
21      never ever perfect it. To me that's what the value of  
22      these hearings are, as an exchange of information and an  
23      effort to accumulate some kind of body of knowledge.  
24      I've certainly learned a great deal. The key issue for  
25      me sitting here is the issue that some of the other

1 people have addressed and that is: what can we do about  
2 it?

3 I mean, we in the Federal Trade Commission do  
4 not run the world. We don't establish patent policy and  
5 we don't establish energy policy and we don't establish a  
6 great many other policies in our economy, but we are  
7 asked to comment from time to time. We're asked to  
8 comment in judicial actions. We file amicus briefs.  
9 We're asked to comment about various legislative  
10 proposals. And my sense is that thing that was called  
11 competition advocacy about 15 years ago, I think you're  
12 going to see more of it. I think you're going to see  
13 more proactive commentary by the Federal Trade Commission  
14 -- and I would assume, maybe, by the Department of  
15 Justice as well, I can't speak for them -- in those areas  
16 bringing whatever expertise we have to bear on issues of  
17 public concern.

18 Just as I don't feel embarrassed to submit a  
19 comment in another forum, I would hope that speakers as  
20 we go forward in these hearings will not feel remotely  
21 embarrassed to tell us specifically what they think we  
22 can do within our limited jurisdiction to assist this  
23 process. Thanks.

24 MS. GREENE: Comments on the Commissioner's  
25 comments? Yes, Bob.

1                   MR. TAYLOR: Let me see if I can expand a  
2 little bit, Tom, on the point about the time line.

3                   MS. GREENE: Which I gave you generously all  
4 of, what, 20 seconds to explain?

5                   MR. TAYLOR: No, 45 seconds. And it's helpful  
6 to go back to some basics and just ask the question, what  
7 is a patent and why do we give it?

8                   If you accept the idea that the inventor brings  
9 to our society something that didn't exist before and  
10 that there's nothing improper or anti-competitive or  
11 anything else about saying to that inventor, "If you'll  
12 tell us what you did and record it here so that others  
13 can do it, we'll give you a limited monopoly -- we'll  
14 give you a limited exclusive right," I won't use the term  
15 "monopoly." So if the only question that the court or an  
16 agency is having to deal with is, is there anything  
17 improper or anti-competitive about letting that inventor  
18 enforce its rights in that particular technology?  
19 Because it's new and because that's the bargain that you  
20 struck as a government with the inventor. I don't think  
21 there's even a competition law issue involved in it.

22                   COMMISSIONER LEARY: I agree.

23                   MR. TAYLOR: The competition law issues come up  
24 when you start examining the real world behavior of  
25 companies that own the patents. They don't just

1 normally, some do but many do not, they don't just sit  
2 back and own the patent. They enter into all sorts of  
3 complex relationships, and it's those complex  
4 relationships with other companies that are potential  
5 competitors that raise the issues that bring antitrust  
6 concerns into play.

7 Now, I don't disagree with you that antitrust  
8 often focuses on a longer time line than just a snapshot  
9 look at an industry. But the point I was trying to get  
10 across is, if you think about any given patent, and it's  
11 much simpler to do this if you think of a one-patent  
12 industry or a one-patent company -- think about any given  
13 patent and strip yourself of social policy and just look  
14 at economics -- that patent was given to a company for  
15 technology that's already invented.

16 You don't have to give the patent to get the  
17 technology that's already been invented except to the  
18 extent it may require some disclosures. So what you're  
19 doing, as a matter of policy, is you're granting a patent  
20 on technology pursuant to a long-term contract in hopes  
21 of encouraging the next investor to come along and  
22 develop technology and to disclose it. But if you just  
23 look at the specific patent that's on the table, that  
24 patent represents the ability of someone to diminish  
25 output and raise price, and in that sense it doesn't fit

1 the kind of equation that a normal antitrust analysis  
2 would fit. That's the reason that I say the time lines  
3 are different. I do understand the point, though, about  
4 antitrust taking a longer horizon, particularly in the  
5 last 15 or 20 years.

6 COMMISSIONER LEARY: I don't have any problem  
7 with what you say. It's just that it seems to me, just  
8 as in the late '70's and in the '80's, we in the  
9 antitrust community came to the conclusion that we were  
10 emphasizing long-term downside effects excessively and  
11 condemning a lot of arrangements that were benign in the  
12 short term out of an excessive fear of long-term effects,  
13 in both of these regimes, we always need to be open to  
14 the possibility that there is a present imbalance, that's  
15 all I'm saying.

16 MR. TAYLOR: And I don't disagree with this.  
17 The reason I raise the point is, in our interest to  
18 reconcile patents and antitrust, let's not get too  
19 short-term in our effect and forget that the purpose of  
20 the patent system, if you back off and look at the last  
21 20 years -- and it's the reason I went through a  
22 historical perspective -- and ask yourself what has  
23 happened in the American economy, it is a vastly  
24 different more vibrant economy today than it was in 1980.  
25 Those American companies that were being pushed out of



1 world markets are now being challenged because they're  
2 too dominant in world markets. We are a much stronger  
3 country, and if you think that there's any connection  
4 between that and the reinvigoration of the patent system,  
5 you really do have to take a macro look at this.

6 COMMISSIONER LEARY: Yeah, and that's a very  
7 fair comment. We did that in the antitrust world as  
8 well, because we looked at what was happening to American  
9 industry in the '70s and came to the conclusion that our  
10 present antitrust policies may well have been unrealistic  
11 in light of what was going on around the world, so that's  
12 a fair comment.

13 MS. GREENE: Rick.

14 MR. NYDEGGER: I was asked to come and to  
15 comment about the kinds of things that clients that we've  
16 worked with over the years take into consideration as  
17 they attempt to develop patent portfolios. That's an  
18 interesting question in the context of the hearing on  
19 antitrust policy as it relates to the interface with  
20 intellectual property laws.

21 From my experience, smaller clients tend to  
22 look at patents from the standpoint of added value to  
23 their business and entry into a marketplace. They're  
24 interested in acquiring patents to protect their  
25 innovative technologies and ideas and hopefully put them

1 on a somewhat level playing field with larger  
2 competitors.

3 On the other end of the scale you have larger  
4 clients. We also have some interaction with clients that  
5 are fairly significant players in their respective  
6 industries, and interestingly enough, I see those clients  
7 also using patents in what I think is a pro-competitive  
8 way, not an anti-competitive way. Although I will be  
9 quick to tell you that if I'd ever sat in a discussion  
10 with a client that talked about using patents in an  
11 anti-competitive way I certainly wouldn't admit to it in  
12 this forum. Larger clients, from our experience, tend to  
13 use patents in many respects, I think, to protect, as do  
14 smaller clients, their innovative technologies, but also  
15 I think to protect themselves with respect to a concept  
16 called freedom of design access, continued access to  
17 technology. That's an important concept to many of them,  
18 particularly the larger ones.

19 Turning to the question of antitrust policy and  
20 how that plays into these kinds of considerations, which  
21 I think admittedly is a much more difficult topic in some  
22 ways. It seems to me that historically antitrust law has  
23 played the role of implementing enforcement policy in  
24 those circumstances where patents have been abused.

25 Unlawful tying arrangements, for example, which

1       have attempted to improperly extend the scope of the  
2       subject matter of the patent to unpatented subject  
3       matter, or unlawfully extending the term of the patent  
4       beyond the lawful term of the patent, those kinds of  
5       arrangements. And I would make the additional point that  
6       typically antitrust enforcement policy has been concerned  
7       with the large firms, not the small players who are  
8       seeking entrance.

9               So I suppose that if there is a question, if we  
10      take for just a moment as a given the assumption -- and I  
11      don't want to by any means by this comment suggest that I  
12      agree with it; in many respects I do not -- but if we  
13      take as an assumption that there are large numbers of  
14      patents that are being granted that are overly broad in  
15      their scope, not high enough quality, I think the real  
16      question that that seems to pose then is, does that give  
17      rise in some fashion or another to large firms to  
18      increase or strengthen their monopolistic positions,  
19      assuming that they have them? I think that's a tough  
20      question to address, particularly given the fact that  
21      much of what goes on today goes on in a context that's  
22      much different from when the antitrust laws first  
23      developed this enforcement policy.

24              I thought that Professor Greenstein from  
25      Northwestern University submitted a paper that was

1 extremely interesting on this point and I want to just  
2 make reference to a couple of points that he made by way  
3 of closing that will kind of emphasize the comments that  
4 I've made here.

5 He made the point, first of all, and I'll  
6 quote:

7 "Public policy should  
8 distinguish between environments  
9 where intellectual property is  
10 effective and where it is not. When  
11 it is not, policy should be concerned  
12 when a dominant firm uses  
13 noninnovative tactics to move the  
14 focus of competitive behavior away  
15 from innovative activity."

16 As a corollary to that he made the comment  
17 that:

18 "Recent rethinking reframes the  
19 analysis of the central question  
20 about large firms. It presumes we  
21 live in a world of widely distributed  
22 technical knowledge where many small  
23 firms have access to some if not all  
24 of the technical assets necessary for  
25 inventive activity. And, in

1           addition, commercializing those  
2           inventions involves use of real  
3           assets from both disinterested  
4           parties such as venture capitalists  
5           and deeply interested parties such as  
6           incumbent firms."

7           And then he concludes with these two points in  
8   relation to this idea:

9           "This approach directs attention  
10          toward two questions. First, if the  
11          two parties cooperate, do incumbents  
12          have assets that significantly raise  
13          the value of the invention in its  
14          commercial form?"

15          Then he says as it turns out:

16          "Policy issues arise in markets where  
17          incumbent's assets survive, which is  
18          to say most innovative markets."

19          And then his second point is this: "Especially  
20   crucial," and I'm quoting again:

21          "Especially crucial, if the two  
22          parties compete, can entrants  
23          effectively exclude the incumbent  
24          from imitating their invention? Most  
25          markets lie between two extremes,

1           those where entrants can exclude by  
2           the incumbent and those where they  
3           cannot. To be sure, the  
4           effectiveness of intellectual  
5           property such as patent law plays a  
6           key role in determining which  
7           situation arises, and when inventors  
8           can exclude imitation, then markets  
9           for tradeable technologies arise.  
10          The larger point is that inventors  
11          tend to act as the source of ideas  
12          but they do not tend to overturn  
13          commercial leadership."

14           A lot of what's gone on, it seems to me, in the  
15          hearings is anecdotal in nature, but there are very large  
16          and real questions out there. I think one of the key  
17          questions, as I said at the beginning of my comments, is  
18          whether if one assumes that there are problems with the  
19          scope of patents being granted, does that necessarily  
20          suggest an enforcement policy or something else? I  
21          thought Professor Teece's point on that was a good point,  
22          it was well taken. Perhaps there's a role in terms of  
23          encouraging reformation. I think the Patent Office is  
24          painfully aware of that.

25           They've undertaken that role last year. Just

1 last year at about this time, they implemented an  
2 initiative with respect to their business methods patent  
3 examination group. We heard John Love talk about that  
4 today.

5 I think related to that question is whether  
6 patents in that category are really any different from  
7 patents across the board that the Patent Office deals  
8 with and grants. We've heard a lot about business method  
9 patents.

10 Back in the '70s when I was first starting to  
11 practice, there was an interesting patent tacked up on  
12 the wall of one of my clients that was a medical device  
13 company having to do with a method for swallowing a pill.  
14 This is a problem that's been around for a long time,  
15 over a hundred years in fact. If you look at the  
16 telephone and the telegraph cases, the very same issues  
17 were presented in those cases over a hundred years ago in  
18 terms of whether the scope of those patents was  
19 commensurate with what was being added to the state of  
20 the technology in terms of what was new and different and  
21 patentable.

22 So, I guess in short, again coming back to  
23 Professor Greenstein, I'd simply close with once again,  
24 maybe, a quote from his comments because I think it  
25 dramatically underscores the situation. He says this:

1                   "Public policy can encourage  
2                   dominant firms to compete by  
3                   innovating. It can do this by  
4                   discouraging powerful incumbents from  
5                   using non-innovative tactics that  
6                   discourage innovation at other firms.  
7                   How far does this principle extend?  
8                   For example, should public policy  
9                   selectively intervene to discourage a  
10                  powerful incumbent from using  
11                  innovative tactics such as patent  
12                  suits and patent blocking?"

13                MS. GREENE: Right, Professor Greenstein  
14                certainly does raise a lot of very important points in  
15                his comments, which I will say as a plug are on our  
16                website, ftc.gov, which is where the proceedings from the  
17                entire set of hearings over the next several months will  
18                be put. There will be transcripts from our hearing today  
19                as with all the other hearings. PowerPoints will be put  
20                up there as well.

21                And you've really honed in on an interesting  
22                point which is sort of delineating these roles, as  
23                Professor Teece said, that the antitrust agencies have a  
24                policy role to play. And, as you said, a reformation  
25                role as well as this enforcement role.



1                   MR. NYDEGGER: I think that's the real  
2 question.

3                   MS. GREENE: Okay, and I'm curious does anybody  
4 want to take on either one of those potential roles and  
5 give us some advice?

6                   MR. WEINSTEIN: Let me try and address in an  
7 effort to be constructive what it's like to be on the  
8 wrong end of a patent assertion. If you're a small  
9 innovative company, really got something good, and you  
10 get a letter in the mail that says, "If you don't pay us  
11 big bucks, you're going out of business because we're  
12 going to sue you."

13                   First of all, the deck is stacked dramatically  
14 in favor of the patent owner. Most people do not realize  
15 this, but section 102 of the patent law says the Patent  
16 Office shall issue a patent unless it proves that the  
17 patent is unworthy. Imagine a big drug company coming in  
18 armed with lawyers and Ph.D.s against some college  
19 graduate two years out of chemistry battling with this  
20 drug company. So there is this presumption that the  
21 Patent Office has the burden of carrying the ball. Now  
22 this company gets sued, and what does it find? There's a  
23 presumption of validity when you might argue that it  
24 could be just the other way around.

25                   In addition to that, the Court of Appeals says

1 a presumption of validity is not strong enough. We're  
2 going to make clear and convincing the standard to  
3 overturn it. We don't like a preponderance of the  
4 evidence standard.

5 So this little upstart company with a great new  
6 cure for Parkinson's Disease or whatever you want to  
7 hypothesize is now faced with five patents with a hundred  
8 and fifty claims with fantastic financial burdens placed  
9 upon it if it wants to stay alive. It has to decide  
10 whether it can finance its defense or whether it's going  
11 to fold and merge with that company, sell out its  
12 portfolio, give up or pay a high priced license fee,  
13 assuming the plaintiff will license as opposed to just  
14 say you're gone. Now this is a very serious real world  
15 problem, it happens every day. I've been there, I've  
16 seen it, and that's the way the system really works when  
17 it comes to Mr. Big versus Mr. Little.

18 Now let's assume the patents are invalid.  
19 Let's assume that Mr. Big has just decided to aggregate  
20 and throw out the standard letter saying somewhere in  
21 these five patents we got you. Put yourself in the  
22 position of this innovator and figure out what's good for  
23 the consumer, what's good for competition, and how we get  
24 the balance back to where it needs to be.

25 Now, I agree with the Commissioner that there

1 is a strong need for an advocacy role. I do think  
2 particularly where there are reckless or knee-jerk  
3 assertions of these patents there's room for section 5 of  
4 the Federal Trade Commission Act and there is room for  
5 other various remedies under the Clayton Act and the  
6 Sherman Act when things go beyond the pale when the  
7 patents have been purchased in order to aggregate those  
8 patents.

9 Let me just say if I can just two more points  
10 and then I'll be quiet.

11 No one has addressed either this afternoon or  
12 this morning that I heard the subject of whether or not  
13 we're giving patents for R&D or investment versus  
14 invention. This goes to the fundamental question of the  
15 standard of invention. That is the essential question  
16 for reform. It's not an antitrust issue, it's an  
17 essential question for reform.

18 The other thing is, I'm old enough to remember  
19 when the head of the Senate Judiciary Committee, Philip  
20 Hart, and the head of the House Judiciary Committee,  
21 Emanuel Celler, were there worrying about the public  
22 interest. Worrying about it, preserving it, holding  
23 hearings. I haven't seen their likes in the Senate and  
24 the House on the patent front since they've been gone.

25 I've seen people come in and say, "Well, you

1 know what, you guys in the software industry, if you can  
2 agree on a bill we'll pass it. You get together, go out  
3 in the hall, and we'll pass it. Or you guys get together  
4 and pass a new patent law just so you're all in  
5 agreement, we don't want to get in this fight."

6 Well, who was protecting John Q. Public? And  
7 that's the role I think that must be played by the  
8 enforcement agencies or this will not get corrected.

9 MR. PLACE: I might add that the same dynamic  
10 happens in copyright as well.

11 MR. WEINSTEIN: Yes.

12 MS. GREENE: Okay. Actually, Professor  
13 Shapiro.

14 PROFESSOR SHAPIRO: I think some of this  
15 discussion about the big guys versus the little guys and  
16 how threatening it is if you're on the wrong side of the  
17 suit actually should highlight exactly where the FTC and  
18 the DOJ should not go in taking sides on those sort of  
19 disputes. It seems to me that that's always going to be  
20 the case. We heard it on biotech earlier, you know,  
21 there's people saying you've got all these patents,  
22 particularly when large numbers of patents are asserted  
23 and they're suspect about the quality.

24 As I understand the law here, it seems to me  
25 just right, so long as somebody's asserting their patent

1       in good faith and there's no fraud on the Patent Office,  
2       that is what the patent allows you to do. And the other  
3       guy might not like it and it may tend to exclude and shut  
4       down the target of this assertion, but that should not be  
5       something that the FTC or DOJ should try to stop any more  
6       than they should get into mandatory licensing if somebody  
7       doesn't want a license. So I think that's where you want  
8       to draw the line.

9               Now, when we get to a whole range of other  
10      business practices, if somebody's acquiring patents and  
11      maybe building up a portfolio that has an exclusionary  
12      effect, or the terms of a settlement are restrictive  
13      conditions, are exclusive arrangements -- merger could be  
14      an instance of this -- that's when you come in and say,  
15      "No, no, maybe those particular terms are not something  
16      that is pro-competitive." But I think you don't want to  
17      get swept off in the passion of those who are on both  
18      sides of these disputes, which is inevitable when people  
19      are asserting these intellectual property rights.

20             And of course, you can take that view and still  
21      play an active role in making sure that the public and  
22      the little guy is protected in the sense that the patent  
23      policy is well thought out and the way the PTO is run and  
24      the procedures to make sure that patent quality is  
25      improved. But don't get in the middle of these disputes,

1       they're simply the normal process of people asserting  
2       patents, which of course can be exclusionary.

3               MR. WEINSTEIN:  Carl, would you get in the  
4       middle if you learned that the letter accusing the party  
5       of infringing five patents was sent out without an  
6       investigation and challenge it under section 5 of the FTC  
7       Act?

8               PROFESSOR SHAPIRO:  Again, not being a lawyer I  
9       think I'll duck this one, but it seems to me so long as  
10      it's good faith and if it's Bob Taylor's law firm and  
11      they've checked it out --

12              MR. WEINSTEIN:  No, it's bad faith.  I asked  
13      you to assume no investigation.

14              PROFESSOR SHAPIRO:  Well, my understanding is  
15      if it's bad faith in the sense, for example, you know the  
16      people don't infringe, and it has a true exclusionary  
17      effect that effects a whole market and not just, you  
18      know, one competitor, then that's a real antitrust issue,  
19      sure.

20              MS. GREENE:  Okay.  Professor Teece.

21              PROFESSOR TEECE:  I'd like to build on what  
22      Carl is saying and put it back to Mr. Weinstein.  Yes,  
23      you can come up with these individual anecdotes, but in  
24      fact one of the interesting things that's come through  
25      from these hearings is that the guys with the patents are

1 not the big guys frequently, it's the little guys. In  
2 fact, Mr. Nydegger just pointed out that in many cases  
3 small firms, new entrants, use their patents to establish  
4 that they're qualified players in an industry, and those  
5 of you that heard Bronwyn Hall yesterday will remember  
6 that she surveyed the semiconductor industry and found  
7 that the folks that really especially appreciate patents  
8 are the new entrants.

9 So the sort of traditional, old-fashioned view  
10 that the incumbent firms have the patents and the poor  
11 little new entrant's getting hit on the head and this is  
12 retarding competition, while it undoubtedly occurs from  
13 time to time, the reality is that doesn't fit anymore  
14 from what I'm hearing based on the field research that's  
15 been done around here and from what people are giving in  
16 the way of general comments.

17 So we have to be very, very careful not to  
18 craft policy based on the individual anecdotes. I mean,  
19 I've been in many circumstances where the venture  
20 capitalist says, well, I'm throwing in an extra million  
21 dollars for a patent litigation because I expect it.  
22 This is not the end of the world. The odd patent case,  
23 there's a hundred of them a year, is not the end of the  
24 world. You know, every industry when it emerges there  
25 are difficult problems around patents, but we shouldn't

1       throw the baby out with the bath water. We should  
2       certainly always work to try and improve policy, but you  
3       know, to craft policy based on individual sad cases will  
4       surely give us bad policy.

5               MS. GREENE: Greg.

6               MR. AHARONIAN: You know, there's another  
7       agency we haven't really mentioned here today, at least  
8       in this session, I'm not sure of the others, but that's  
9       the Securities and Exchange Commission.

10              None of these lawsuits and activities before  
11       the lawsuits happen in a vacuum, especially during the  
12       Internet bubble era. Oftentimes we'd see one startup  
13       after another, as soon as they got their patent issued,  
14       go straight to the press and announce that they got this  
15       great patent that's going to let them block out all their  
16       competitors that was broad as hell. You would see the  
17       stock price rise immediately and significantly, and then  
18       over time as everyone started checking it out and  
19       realized these guys are bullshitting, the price dropped.

20              In fact, I commented on this in my newsletter  
21       and an economist actually checked it out and he figured  
22       that you could actually make money by shorting the stock  
23       of a startup or a big company that announced a bogus  
24       patent the day after they announced it.

25              To me, one of the reasons I'm so insistent on



1 patent quality is not just for players in the industry  
2 itself, but also bad patents lead to market distortions  
3 in stock prices and related phenomena, and that is  
4 directly a charge of the Securities and Exchange  
5 Commission, to make sure such things don't happen.

6 So my question for Professor Teece and maybe  
7 the Commissioner is maybe we're addressing the wrong  
8 commission here or maybe we've got to pull in the SEC.

9 Bad patents distort the markets, that's bad for  
10 everyone, and there are competitive problems there as  
11 well. Maybe we should bring them in, because they do  
12 have a direct role as opposed to these kind of vague  
13 trying to find some antitrust goings on out there, which  
14 I think is hard.

15 PROFESSOR TEECE: Well, you know, I'm not in  
16 favor of bad patents, but I would point out that there's  
17 learning that goes on. And you just described it as  
18 basically that people are idiotic and think that somehow  
19 or other issuing a patent is conveying uncommon value.  
20 Anyone that's studied patents will know what Bob Taylor  
21 said, namely there's only one in a hundred that ever has  
22 commercial value, so the fact that there are idiot  
23 investors out there who make dumb decisions and there's  
24 people who make money on it, I don't see the SEC needs to  
25 get in and fix that. We're not going to fix every

1       problem in this society. If people take a while to  
2       learn, so be it. But if we run in and try to regulate  
3       our way to perfection, we're certainly not going to get  
4       perfection.

5                   MS. GREENE: John.

6                   MR. LOVE: I just want to comment. I've heard  
7       a lot of concerns raised about what to me is patent  
8       misuse and I certainly understand that there are problems  
9       there, but I think that's a different issue than looking  
10      at the patent system in general. If there are concerns  
11      about patent misuse I think the FTC and Department of  
12      Justice, certainly there's a concern there in some policy  
13      issues, but I guess I'll reiterate don't throw the baby  
14      out with the water. The problem may not be with the  
15      patent system. It may be in the use and the practices  
16      that people make of it, of the patents themselves.

17                   And one other thing. The last 20 years there  
18      have been other industries that have gone through  
19      similar, I guess, patent awareness and increases in  
20      patent activity, and I just want people to keep in mind  
21      that the patent system has served industries very well  
22      the last 20 years. You know, our economy has certainly  
23      flourished and we've been one of the best economies in  
24      the world and the envy of many companies. In the  
25      sporting goods area, those of you that play golf and

1       tennis, I'm sure you're aware of the number of patents  
2       and the increased development of the technologies of  
3       those companies, and they seem to be surviving very well.

4               Also, I used to have jurisdiction over the  
5       medical and health care industries, and I think people  
6       who are familiar with those industries, 20 years ago they  
7       were very, very -- I guess, in the patent infancy stage  
8       about using and filing for patent applications -- but  
9       over the past 20 years the activity in that area has  
10      increased drastically, because I know I had to oversee  
11      the increase. There used to be about six examiners  
12      handled all the applications in the surgical area, now  
13      there are over 150.

14             So other technologies have dealt with the  
15      problem. They've survived, competition has flourished,  
16      and software may have some different characteristics, but  
17      I think let's not overreact about the value of the patent  
18      system if in fact there are some misuses of the patent  
19      itself, which seems to be a different issue.

20             MS. GREENE: Okay. Bob.

21             MR. TAYLOR: I would very much not want to see  
22      the agencies getting into the business of trying to  
23      police what somebody thinks might be bad or weak patents.  
24      First of all, I think you may even be proceeding from an  
25      incorrect premise that there are more patents today than

1       there were at other times in history. The size of the  
2       American economy is vastly different today than it was 20  
3       years ago or 40 years ago, and if you make an assumption  
4       that there might be some correlation between the number  
5       of patent applications and the gross national product,  
6       then you at least ought to examine that question, which  
7       I'm not sure anybody has done.

8               Furthermore, on that point, the nature of the  
9       American economy. We are increasingly finding our growth  
10      in the economy in new technology, and while new  
11      technology has been a driving force for this economy for  
12      200 years, it is today the primary driving engine, and  
13      that will in and of itself lead to a large number of  
14      patents.

15             The further point, though, is even if you  
16      accept the idea that there are in the patent system a lot  
17      of weak patents, and I'm not sure I agree with the way  
18      Carl looks on a weak patent. He said he thought that a  
19      weak patent was one that might not be enforceable. I  
20      think the system itself, by and large, takes care of the  
21      unenforceable or the invalid patents. I think there  
22      probably are some patents that make very marginal  
23      contributions in terms of the advance of human knowledge,  
24      and if I were thinking about patents that would support  
25      anti-competitive types of arrangements between companies,

1       it would seem to me that that would at least be a  
2       relevant inquiry.

3               Indeed, I think that if you contrast the old  
4       General Electric case dealing with tungsten filament  
5       light bulbs with the U.S. Gypsum case which dealt with a  
6       machine that depressed the edge of a wall board, of a  
7       piece of wall board so that when they build a house they  
8       can put tape in the joint, cover it over with mud and can  
9       seal the crack, the way the Supreme Court handled the  
10      price fixing arrangements or the price restrictive  
11      licensing arrangements in those two cases, you will at  
12      least find some historical precedent for treating  
13      differently technology that really adds something of  
14      great importance to the economy.

15             But for the agencies to get in and try to bring  
16      enforcement actions and try to identify those strikes me  
17      as an almost impossible task. There's precedent for it.  
18      U.S. v. Glaxo, and there's at least another case brought  
19      by the Department of Justice back in the '40's and '50's  
20      where they challenged restrictive licensing based on the  
21      grounds that the patent was invalid and they went after a  
22      validity attack on the patent. I thought we had laid  
23      those to rest by the time we got to about 1970.

24             MS. GREENE: Right. Unfortunately, our time is  
25      starting to come to an end, so just to restate one of our

1 issues and throw it out for everybody to make some  
2 closing comments, Professor Teece articulated it as -- I  
3 keep picking on your presentation -- you've got some  
4 problems, but they do get sorted out, and then the  
5 question becomes at what cost?

6 And one of the things that seems to be  
7 percolating through our discussion is that the cost of  
8 addressing certain problems changes if you address them  
9 early on or later on; and, in fact, the nature of the  
10 issue or the problem may change over time, depending upon  
11 what it is. And I'm obviously speaking about the patent  
12 process through turning it into actually using the  
13 patent, then potential litigation, et cetera.

14 So with that as just sort of a final word on my  
15 part, does anybody have some additional comments?

16 PROFESSOR TEECE: Just one last comment, if I  
17 may. There probably are a few cases where in theory the  
18 agencies can improve things, but let me come back to a  
19 fundamental issue about patents and patent disputes.

20 Most patent disputes and the reasons why they  
21 end up in court are around different perceptions by the  
22 parties as to validity and infringement and therefore  
23 value, so there's uncertainty. If there was a clear  
24 definition of the property rights these things would  
25 typically get worked out in the marketplace through

1 negotiation and there wouldn't be litigation.

2 Even if the agencies can improve things in  
3 theory, if you inject another element -- namely, I've got  
4 a patent, not only do I have to work through the  
5 probability that it's valid and the probability if it's  
6 valid that it's infringed, but I've also got to take into  
7 account what the agencies will do -- unless there's  
8 absolute clarity with respect to the way the agencies are  
9 going to act, that's an additional element of uncertainty  
10 that can create distance between the parties to the  
11 litigation and reduce the likelihood of settlement. So  
12 you end up pushing things out of the marketplace and into  
13 the courtroom unless whatever you craft is so clear that  
14 it doesn't add another element of uncertainty. So that's  
15 kind of just raising the bar really on terms of how you  
16 get good public policy here.

17 I'm willing to admit that I think that there is  
18 some policy improvement that can come through the  
19 agencies working together at a policy level. But when  
20 you get into the enforcement action, unless the policy  
21 guiding the enforcement is crystal clear, you're going to  
22 take a step backwards rather than forward because you're  
23 going to create additional uncertainty which will lead to  
24 more disputes, not less.

25 MS. GREENE: Carl.

1           PROFESSOR SHAPIRO: I think the agencies have  
2 of course long realized that there are various licensing  
3 arrangements and deals between competitors that can act  
4 against the public interest. That's equally true of  
5 various settlements. So while I agree with various sort  
6 of hands off sentiments that have been expressed, I would  
7 leave you with the notion that you should not presume  
8 that settlements or other arrangements involving patents  
9 that are reached between competitors are in the public  
10 interest. There is just no such inference, and that's  
11 why it's an entirely legitimate area for the agencies to  
12 keep an eye on such settlements, particularly between  
13 direct competitors.

14           MS. GREENE: Right. Les.

15           MR. WEINSTEIN: Picking up on this point and  
16 also responding to Professor Teece, it's important to  
17 recall that for every case that gets to trial, and I have  
18 no data on this, but it would not surprise me if there  
19 were 50 or 100 that get settled that if they had gone to  
20 trial would have had a defendant prevail, but the risk of  
21 the draconian injunction putting you out of business and  
22 the treble damages and the uncertainty surrounding  
23 litigation forces settlements which impose a tax on the  
24 public as opposed to allowing the invalid patents that  
25 are pouring out, and I do think they're pouring out, to



1 get adjudicated.

2 MS. GREENE: Now, even though it's five, I want  
3 to give everybody the opportunity to have a last comment,  
4 so we're going to just keep going. Rick.

5 MR. NYDEGGER: Yeah. I think one thing is  
6 worth noting here in terms of this whole issue with  
7 respect to patent quality. I think that in a sense in  
8 fairness to the PTO, if there is a question here, an  
9 issue -- and I again, I don't think we ought to  
10 necessarily jump to that conclusion too quickly -- a lot  
11 of the evidence seems to be anecdotal in nature. But I  
12 think it's worth noting that the PTO deserves an  
13 opportunity to probably have access to the resources it  
14 needs to do its job properly and then to see if that  
15 results in improved quality at the outset. It's no  
16 secret that over the last five years Congress has  
17 diverted a half-billion dollars of user fees paid to the  
18 PTO for other purposes that Congress deemed to be more  
19 important than patent examination.

20 What's worse, uncertainty and increasing  
21 pendency that results from that uncertainty, or trying to  
22 decrease that pendency, those both can have implications  
23 in terms of potential anti-competitive effects. I  
24 personally think that the uncertainty that comes from  
25 increasing pendency can perhaps be a larger problem.

1           The PTO has struggled mightily to keep that  
2           down. In that same five-year period, for example, the  
3           pendency has gone from 20.8 months to 24.7 months.  
4           They're doing a good job of staying paced but that's  
5           putting pressure obviously on the PTO in terms of its  
6           resources. The number of filings in that same period  
7           rose by 71 percent. Their staffing, on the other hand,  
8           rose something like 34 percent, or half the pace. How  
9           many corporations do we know of that could handle those  
10          kinds of increases in demands on their output or  
11          production with essentially staying level or at half the  
12          pace? That's a tremendous burden for any agency to bear,  
13          so perhaps if there is an issue that's the starting point  
14          for solving the issue it is to give them a fair chance to  
15          fight with both hands instead of one hand tied behind  
16          their back.

17                 MS. GREENE: Greg.

18                 MR. AHARONIAN: I'll agree to some extent with  
19          Robert and David that, as much as possible, keeping up  
20          government agencies is always a good thing. I firmly  
21          believe that a very effective and reasonable, and  
22          sometimes undue, burden of costs affects that industry  
23          itself, but working with the PTO can solve a lot of these  
24          problems.

25                 At the same time, as John kind of jokingly

1 pointed out, every industry for the last hundred years  
2 has had this problem, and he said that eventually we  
3 resolved it and moved on. At the same time, that means  
4 for the last hundred years this country has been unable  
5 to anticipate how to deal with the next thing. We keep  
6 on screwing it up every generation. You'd figure at  
7 least one time we'd say, "Hey look, ten years from now  
8 we're going to get another headache. Why don't we get  
9 ready for it now." So in a sense we've been kind of  
10 screwing this up repeatedly for the last hundred years;  
11 and I say screw up because, in the engineering sense,  
12 this is something that can be fixed.

13 And as the data I like to toss out all the time  
14 shows, industry really isn't doing enough, I don't think.  
15 In that case, where industry refuses to take these  
16 problems seriously over a long period of time, good or  
17 bad, let's bring in someone else. I mean, they might not  
18 make it any better or worse, but we've blown our  
19 opportunity and it's time to shake it up a bit.

20 MS. GREENE: Thank you. Luis.

21 MR. MEJIA: Yeah, I'll make it very quick  
22 here. I just wanted to follow up on Professor Shapiro's  
23 comment about settlements most likely being between  
24 competitors.

25 The university is rarely a competitor with a

1        company in which we find ourselves in litigation. Just  
2        for illustrative purposes, the university has only sued  
3        three companies in thirty years. So we do this very  
4        rarely and most of the time hesitantly when we do do it,  
5        because that's really not what we're about.

6                The point I wanted to make was that in my  
7        experience with the process, and having only very limited  
8        experience in this realm, there is oftentimes great  
9        pressure to settle, and the pressure seems to come from,  
10       again from my limited experience, from judges that don't  
11       want to handle patent cases. And then we have to take a  
12       look at the possibility of, you know, being overturned  
13       and all of the down sides of not settling.

14               So the point is that I think from the  
15       university standpoint I think our avenues are somewhat  
16       limited because we don't find ourselves in direct  
17       competition with companies in which we can cross-license  
18       and have a standard type of a settlement. So I would  
19       just throw that out as something to think about. I know  
20       it's beyond my experience really to go into any great  
21       detail on that, but I do know that from my limited  
22       experience that there are some issues there that do tend  
23       to be problematic.

24               MS. GREENE: Thank you. John.

25               MR. LOVE: I thought I was through but I have

1       one more comment in response to Greg.

2               MS. GREENE:  We'll end on a note of Love --  
3       what can I say.

4               MR. LOVE:  What I meant by saying we've been  
5       through this before is the cycle of what we call emerging  
6       technologies where the patent activity due to the nature  
7       of the technology the grants are very broad in nature,  
8       and I think that's part of what the system is all about.  
9       You have emerging technologies, you have pioneer  
10      inventions, the inventors are entitled to broad claims.  
11      But then the developments come along, patents are issued  
12      to improvements, and you know, at the end of the cycle  
13      you have several companies that are competing and seem to  
14      be doing very well.  And again I'll say there are many  
15      examples of that over the last 20  years and to me that's  
16      one of the benefits of the patent system.

17              MS. GREENE:  Okay.

18              MR. LOVE:  Thanks.

19              MS. GREENE:  I lied because I did say everyone  
20      could have their last comment, so Bob.

21              MR. TAYLOR:  I just wanted to say that it's  
22      been a great privilege to be part of this group, it's a  
23      very distinguished and thought provoking discussion and  
24      I've enjoyed it immensely.

25              MS. GREENE:  I couldn't end it better myself.

1 Thank you all so much.

2 (Whereupon, at 5:05 p.m., the workshop was  
3 adjourned.)

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C E R T I F I C A T I O N   O F   R E P O R T E R

CASE TITLE:   COMPETITION AND INTELLECTUAL PROPERTY LAW  
AND POLICY IN THE KNOWLEDGE-BASED ECONOMY  
HEARING DATE:   FEBRUARY 27, 2002

I HEREBY CERTIFY that the transcript contained  
herein is a full and accurate transcript of the notes  
taken by me at the hearing on the above cause before the  
FEDERAL TRADE COMMISSION to the best of my knowledge and  
belief.

DATED: MARCH 8, 2002

KENT ANDREWS

C E R T I F I C A T I O N   O F   P R O O F R E A D E R

I HEREBY CERTIFY that I proofread the transcript  
for accuracy in spelling, hyphenation, punctuation and  
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