

1 OFFICIAL TRANSCRIPT PROCEEDINGS
2 COMPETITION AND INTELLECTUAL PROPERTY LAW AND POLICY
3 IN THE KNOWLEDGE-BASED ECONOMY
4 FEDERAL TRADE COMMISSION

5 April 10, 2002

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14 Reported and transcribed by Deborah Turner, CVR
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P R O C E E D I N G S

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3 MR. COHEN: Good morning. I'm William Cohen. I'm
4 an Assistant General Counsel here at the Federal Trade
5 Commission, and I want to welcome you to today's session
6 of the FTC/DOJ hearings on competition and intellectual
7 property law and policy in the knowledge-based economy.

8 This morning we're fortunate to have an
9 introductory speaker who will talk to us before we move
10 into the first session of our day-long panel.

11 Our speaker is Kenneth Frankel who will be
12 addressing us on behalf of the American Intellectual
13 Property Law Association, the AIPLA.

14 Mr. Frankel is a partner at Finnegan, Henderson
15 Farabow, Garrett & Dunner in Washington, D.C. His
16 practice focuses on patent litigation, client counseling,
17 and intellectual property antitrust matters.

18 He came to private practice following 16 years as
19 a trial attorney in the Antitrust Division of the U.S.
20 Department of Justice. Mr. Frankel is the Chairman of
21 the AIPLA's Antitrust Law Committee. So I'll start us
22 off by letting Mr. Frankel give his introductory remarks.

23 MR. FRANKEL: Thank you very much, Bill. Good
24 morning. On behalf of the American Intellectual Property
25 Law Association we welcome this opportunity to provide

1 our association's views on antitrust and intellectual
2 property protection, promoting innovation and
3 competition.

4 We offer our views on several specific topics
5 that pertain to the interface between these two sets of
6 laws: the roles of antitrust law and intellectual
7 property in fostering innovation, unilateral refusals to
8 license intellectual property, settlement of intellectual
9 property disputes, the role of the Federal Circuit in
10 developing antitrust law in the intellectual property
11 area, the scope of patents, the lack of market power of
12 intellectual property, and the use of different types of
13 licensing.

14 While we have submitted our written views on all
15 these topics which should be printed for everyone to see,
16 today I'll focus on really the fundamental one, the roles
17 of antitrust law and intellectual property in fostering
18 innovation, and also the very important topic of not
19 diverting funds from the PTO.

20 Initially, let me give you a little bit of
21 background about our organization so that you can better
22 understand the basis for our comments.

23 The AIPLA is a national bar association
24 representing a cross-section of the intellectual property
25 bar in the United States.

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1 Our membership includes attorneys who are
2 in-house, private, government, academic, and who
3 represent a wide range of clients in all aspects of
4 intellectual property licensing and protection.

5 Our members, who number over 13,000, regularly
6 work with diverse issues involving patents, copyrights,
7 trade secrets, trademarks, unfair competition law, the
8 full range of intellectual property, as well as other
9 fields of law affecting intellectual property.

10 They advise large corporations and small
11 corporations, individuals, institutions, government
12 agencies.

13 Our members represent intellectual property
14 owners seeking to enforce their intellectual property
15 rights as well as those sued for infringing intellectual
16 property rights. And they represent parties that allege
17 antitrust violations and misuse of intellectual property
18 as well as those who defend against such charges.

19 Our members' clients are among the most
20 innovative companies in the world. They are vitally
21 interested in continuing to promote innovation in the
22 United States and increasing the number of United States
23 jobs based on technologies without violating our
24 antitrust laws.

25 As a result, we believe that we have a balanced

1 view of the role of intellectual property protection and
2 the competition processes. We also believe that this
3 balanced view extends to the respective roles of
4 antitrust enforcement and intellectual property.

5 First, I'd like to talk about the roles of
6 intellectual property and antitrust laws in fostering
7 innovation. Our members have learned that business
8 competition spurs innovation, and they seek to preserve
9 it. But they do not want to stifle innovation by making
10 it harder or less rewarding to innovate or to compete in
11 the United States.

12 We believe that intellectual property protection
13 is essential in promoting innovation and investment in
14 new technologies, and that licensing this property is
15 pro-competitive.

16 The core element of intellectual property rights
17 is the limited right to exclude others from carefully
18 circumscribed areas. Patents and copyrights protect
19 investments in innovations and expressions respectively
20 for only limited, specific periods of time.

21 Trademark rights similarly protect marks from
22 identical and confusingly similar uses by others, and
23 state common law trade secret rights protect proprietary
24 information such as know-how only until the information
25 is no longer secret.

1 All are limited in scope to specific inventions,
2 expressions or information and only in the exceedingly
3 rare case do they encompass an entire antitrust relevant
4 market, and all protect against only limited types of
5 infringing activities.

6 Intellectual property rights give the owner no
7 right to make, use, sell or copy the technology or
8 expression that is protected by the rights. For example,
9 inventions very often are improvements on earlier basic
10 inventions made by others. If the owner of the
11 intellectual property rights to the basic invention wants
12 to exercise its exclusivity, that owner can stop the
13 owner of rights to the improvement from making, using or
14 selling the improved invention. Likewise, the owner of
15 the rights to the improvement can stop the owner of the
16 rights to the basic invention from making, using or
17 selling the improved invention.

18 The intellectual property rights thus give only
19 the right to exclude not the right to use. That
20 exclusivity is the powerful driving force behind the
21 incentives to innovate, to license, to compete.

22 Intellectual property protection encourages
23 investment in development and use of innovations.
24 Moreover, patents encourage disclosure of inventions so
25 that others can learn from them and expand upon them.

1 By affording exclusivity and protection
2 intellectual property laws spur competitors to innovate
3 around the protected invention and to make advances in
4 alternative and often superior technologies. Further
5 promoting competition, intellectual property rights very
6 often are licensed to others.

7 We view the antitrust laws as providing
8 complementary protection of competition and fostering
9 innovation at the same time. The antitrust laws in our
10 view serve their proper role by stepping in to curb
11 excesses in the marketplace only when the restraints on
12 competition exceed their reasonable bounds. In so doing
13 they allow existing and would be competitors the freedom
14 to develop and to market innovations to better compete.

15 Consequently, we view the two sets of laws as
16 fully sharing common, not conflicting, goals and acting
17 together in balance.

18 Now, we have some views also on the unilateral
19 refusals to license intellectual property which has taken
20 a forefront in the debate in recent years. We recognize
21 that the antitrust laws provide limits on what people can
22 do with their property when restraints on competition in
23 the marketplace exceed reasonable bounds.

24 As I pointed out, however, the essence of the
25 intellectual property right is the right to exclude

1 others from using or copying the intellectual property.
2 Without that exclusivity the intellectual property right
3 is essentially meaningless.

4 Consequently, the AIPLA does not believe that the
5 unilateral act of refusing to license intellectual
6 property should be the basis for imposing antitrust
7 liability as long as the competitive effect of the
8 refusal is not extended beyond the scope of the statutory
9 grant and the refusal is not accompanied by fraud or sham
10 litigation.

11 We also have views on the settlement of property,
12 intellectual property disputes. Obviously, settlements
13 are a form of an agreement. Depending upon the terms of
14 the settlement and the relationship of the parties in the
15 marketplace, they could raise antitrust issues similar to
16 those raised by any other form of agreement.

17 At the same time, settlements are an efficient
18 means of resolving litigation and eliminating risk for
19 owners of intellectual property and their potential
20 competitors.

21 Moreover, litigation settlements serve other
22 public policies including conservation of judicial
23 resources. We believe that the antitrust rules relating
24 to settlements need to accommodate all of these policy
25 considerations.

1 A few courts have recently held settlement
2 agreements illegal under a per se rule. We believe that
3 applying a per se rule to litigation settlements is
4 unwise and inappropriate absent fraud or sham litigation
5 on settlements.

6 Per se liability should be reserved instead for
7 practices that lack any redeeming value. The potential
8 benefits to efficiency and to innovation from litigation
9 settlements suggest that bona fide settlements should not
10 be subject to a per se rule. Indeed, it would seem to be
11 particularly inappropriate to apply a per se rule to
12 conduct that the courts explicitly encourage.

13 We also have views on the role of the Federal
14 Circuit in the intellectual property antitrust area. In
15 reviewing antitrust issues in patent infringement cases
16 the Federal Circuit normally applies the antitrust
17 precedent of the regional circuit court of appeals for
18 the circuit in which the district court rendering the
19 judgment is located. However, for issues that the
20 Federal Circuit believes clearly involve its exclusive
21 jurisdiction, it applies its own precedent rather than
22 that of the regional circuit.

23 In the latter category the Federal Circuit
24 includes conduct in procuring or enforcing a patent and
25 determines the antitrust liability of such conduct under

1 its own precedent. And this has raised questions amongst
2 the antitrust and patent bar.

3 The AIPLA believes however that the Federal
4 Circuit's approach is correct. This approach can provide
5 uniformity in application of the antitrust law for
6 patents that have nationwide scope and conduct that's not
7 limited to one region of the country. By applying a
8 uniform standard in infringement cases, uncertainty is
9 reduced for patent owners, and that fosters innovation.
10 Moreover, applying its own precedent does not insulate
11 the Federal Circuit from developments in antitrust law
12 from other regional circuits.

13 The FTC has also been focusing on the scope of
14 patents and the procurement procedures. In our view, the
15 scope of patents raises competition issues, for it can
16 affect the degree to which patents spur innovation. But
17 we believe that the scope should be left to the courts to
18 develop as a matter of patent law.

19 Patents that are valid have a scope that covers
20 only new, useful, and nonobvious inventions. The scope
21 should not be artificially altered to meet concerns of
22 other bodies of law such as antitrust law.

23 Working within the scope of valid patents we
24 believe that the courts can balance the two complementary
25 goals when they interface in the particular cases.

1 We do not view the procurement procedures for
2 patents as having antitrust significance or needing
3 correction for antitrust reasons, but we do have
4 substantial concerns about the diversion of funds from
5 the Patent and Trademark Office, which affects its
6 ability to conduct a rigorous review of all patent
7 applications.

8 The PTO shoulders a tremendous burden and
9 responsibility in annually reviewing huge numbers of
10 patent applications and deciding which deserve the patent
11 award. Over the years, the PTO has demonstrated its
12 responsiveness to the changing needs of examining
13 different types of subject matter.

14 Unfortunately, recent executive and legislative
15 actions have severely undermined the ability of the PTO
16 to meet the growing challenges it faces. Since 1992 the
17 President and Congress have combined to divert over \$700
18 million of PTO fee revenues to other federal programs.

19 This diversion of revenue from the PTO has
20 increasingly inhibited the PTO from routinely and
21 promptly performing high-quality search and examination
22 of patent applications and establishing electronic filing
23 and processing of patent applications as demanded by U.S.
24 industry.

25 Ensuring adequate support for the PTO to carry

1 out its constitutional mission could be one laudable
2 outcome of these hearings. If it obtains proper funding,
3 we believe it would have the ability to conduct a
4 rigorous review of all patent applications.

5 And the last topic I just want to point to is the
6 lack of market power of intellectual property. The AIPLA
7 believes that no presumption of market power should exist
8 for intellectual property, in accordance with the
9 position that the federal agencies have taken.

10 A blanket presumption of market power for
11 intellectual property bears no valid relationship to the
12 real world. In all but the rarest cases in our economy,
13 products and methods compete with other products and
14 methods that affect their market price.

15 In conclusion, the AIPLA appreciates the
16 opportunity to contribute to the FTC's and the Antitrust
17 Division's understanding of the dynamics of intellectual
18 property and its benefits for promoting competition.
19 Thank you.

20 MR. COHEN: Thank you very much. Your statement
21 and the written statement that underlies it provides some
22 comprehensive insights into many of the issues that we're
23 discussing not only today but throughout the rest of the
24 hearings.

25 For the rest of today we will be engaged in a

1 panel discussion covering substantive standards of
2 patenting this morning and patenting procedures,
3 presumptions and uncertainties this afternoon.

4 This builds upon a session that we held early in
5 these hearings where we heard three excellent
6 presentations which were designed to depict, in entirely
7 objective terms, the current state of the substantive and
8 procedural law of patenting.

9 Today, we're going to free the panelists to
10 present their opinions in offering normative assessments
11 of these subjects. While we expect to hear opinions,
12 we're going to be particularly interested in the analysis
13 that underlies their thinking because we hope to draw
14 from today's session a better understanding of the legal
15 and economic principles that underlie today's patent
16 practices and the various changes that have been
17 suggested.

18 We have an outstanding set of panelists who have
19 offered their time to help us with these issues. First
20 though, I want to be sure to introduce the other
21 participants from the government who will be joining me.

22 To my left is Hillary Greene who is our project
23 director for intellectual property in connection with
24 these hearings, in the Policy Studies section of the
25 General Counsel's office here at the FTC.

1 Down toward the end of the table is Bill
2 Stallings who will be joining us from the Department of
3 Justice. And right next to him is Magdalen Greenlief who
4 is going to be helping us from the Patent and Trademark
5 Office.

6 Now, as to the panelists who have joined us, I
7 think what I'll do is give very brief introductions to
8 each of them. We can just move around the table.

9 At the far end of the table we have Suzanne
10 Scotchmer who is a professor of economics and public
11 policy at the University of California, Berkeley. She
12 has published extensively on the economics of
13 intellectual property and other topics, and she has
14 appeared before several committees of the National
15 Research Council, mostly regarding intellectual property.

16 Immediately next to her is Jay Kesan, who is an
17 Assistant Professor of Law at the University of Illinois,
18 College of Law and also holds positions in the Institute
19 of Government and Public Affairs and the Department of
20 Electrical and Computer Engineering. He holds a Ph.D. in
21 electrical and computer engineering, which helps explain
22 the latter appointment. He is a registered patent
23 attorney and teaches and writes extensively in the areas
24 of patent law, intellectual property law and regulation
25 of cyberspace, and law and economics. Professor Kesan

1 serves as the faculty editor in chief of the University
2 of Illinois Journal of Law, Technology and Policy.

3 Next to him is Salem Katsh, the head of the
4 Intellectual Property Group at Shearman & Sterling. He
5 is a partner in that firm and an experienced trial lawyer
6 with a practice focused on patent, trade secret,
7 trademark, unfair competition, and antitrust litigation.
8 Mr. Katsh has written extensively on intellectual
9 property and antitrust matters as well as related
10 litigation topics.

11 Now, moving just two seats to my right we have F.
12 Scott Kieff. If you have noticed a pattern here, we have
13 a great many panelists whose names begin with K. He is
14 the John M. Olin Senior Research Fellow in Law, Economics
15 and Business at Harvard Law School and an Associate
16 Professor of Law at Washington University School of Law.
17 Before taking up his teaching posts he practiced as an
18 associate with the firm of Pennie & Edmonds in New York
19 and as an associate and counsel with the firm of Jenner &
20 Block in Chicago. He has written numerous articles about
21 obtaining and enforcing intellectual property rights and
22 he is a co-author of the treatise and casebook,
23 Principles of Patent Law.

24 Now, moving two seats to my left, we have Mark
25 Janis, a Professor of Law at the University of Iowa,

1 College of Law. He teaches and writes in the field of
2 patents, trademarks, unfair competition, and intellectual
3 property/antitrust. He has published several articles on
4 domestic and international patent law and is a co-author
5 of a treatise, Intellectual Property and Antitrust, as
6 well as a forthcoming casebook on trademarks and unfair
7 competition. Professor Janis is a registered patent
8 attorney and practiced law with Barnes & Thornburg in
9 Indianapolis prior to his appointment at the University
10 of Iowa.

11 Skipping Mr. Frankel we move to Arti Rai who is
12 an Assistant Professor of Law at the University of
13 Pennsylvania Law School. She has taught at the
14 University of San Diego Law School and the University of
15 Chicago Law School and was a faculty fellow at Harvard
16 University. Professor Rai has written numerous articles
17 on patent law and biotechnology and health-care
18 regulation. Before teaching she practiced law with
19 Jenner & Block in Washington, D.C. and in the federal
20 programs branch of the Department of Justice.

21 Next to Professor Rai is Professor Jay Thomas, an
22 Associate Professor of Law at the George Washington
23 University. He also serves as visiting researcher in
24 entrepreneurship and economic growth at the Congressional
25 Research Service and instructor at the U.S. Patent and

1 Trademark Office Patent Academy. He is the author of
2 numerous articles on intellectual property law and also
3 authored a patent law casebook and intellectual property
4 treatise.

5 And at the far end of the table on my left we
6 have Stephen Kunin, a Deputy Commissioner for Patent
7 Examination Policy at the U.S. Patent and Trademark
8 Office. In that capacity he participates in establishing
9 patent policy including changes in patent practice,
10 revision of rules of practice and procedure,
11 establishment of examining priorities, and classification
12 of technological arts. Previously he has served as a
13 patent examiner, a supervisory patent examiner, Director
14 of the Manufacturing Group, Director of the Electrical
15 Communications Group, Deputy Assistant Commissioner for
16 patents, and Acting Assistant Commissioner. In 2001 he
17 was named by Intellectual Property Today magazine as one
18 of the most influential people in intellectual property
19 law.

20 That's just an outstanding panel, and we look
21 forward to hearing from them.

22 And I skipped right over, and I'm being pointed
23 out here -- I'm sorry. My apologies. Roger Parkhurst,
24 president of the American Intellectual Property Law
25 Association. He is a name partner at the law firm

1 Parkhurst & Wendel in Alexandria, Virginia. He comes to
2 us with extensive experience as an author, speaker and
3 expert witness on aspects of patent law. And we're very
4 glad to have you even though I skipped you.

5 Let's begin now. We have three presentations
6 this morning from our panelists. And I understand that
7 Professor Rai will talk to us for a few minutes to lead
8 us off. Professor Rai.

9 PROF. RAI: My comments this morning will be
10 directed to issues of patent scope in the context of
11 cumulative innovation. And I will note the interaction
12 of patent scope with the nonobviousness and possibly the
13 utility standard.

14 Now, when one is speaking about cumulative
15 innovation, determining the scope of the initial or
16 pioneer patent is obviously a very difficult problem.
17 And many scholars have written about this problem, one of
18 the most prominent being Suzanne Scotchmer, who is here
19 with us today.

20 We have to calibrate scope in a manner that
21 provides adequate incentives for both the initial
22 innovator and for follow-on innovators.

23 Now, an initial patent of broad scope will no
24 doubt provide useful incentives for the first innovator.
25 However, there may be difficulties associated with

1 licensing this patent of broad scope to subsequent
2 follow-on innovators.

3 It's particularly true ex post, again as Suzanne
4 Scotchmer has pointed out, when the follow-on innovator
5 has already invested and the first patent can be used as
6 hold-up.

7 But it can also be true ex ante because the
8 parties may have divergent valuations of their respective
9 contributions or potential contributions in the case of a
10 follow-on innovator and other transaction cost
11 difficulties.

12 The Merges and Nelson article in the 1990
13 Columbia Law Review catalogues a variety of historical
14 contexts in which a pioneer patent of broad scope could
15 not usefully be licensed and therefore at least arguably
16 hindered subsequent innovation.

17 More recently, I just want to call your attention
18 to a case that involved a somewhat similar set of issues
19 in the biomedical arena, and this is the Johns Hopkins
20 versus Cellpro case.

21 In that case, Johns Hopkins had a broad patent on
22 a class of antibodies that could be used for purposes of
23 producing stem cell separation. Hopkins received this
24 broad patent even though it had actually identified only
25 one of these antibodies. However, nonetheless it

1 received a patent on a class of antibodies.

2 It licensed its patent exclusively to a company
3 called Baxter. It turned out, however, that Baxter was
4 not nearly as creative or efficient in figuring out how
5 to use this technology to produce a marketable stem cell
6 separation device as was a competitor called Cellpro.

7 And even though Cellpro used an antibody that was
8 actually different from the Hopkins antibody, Cellpro's
9 work fell within the scope of the very broad Hopkins
10 patent.

11 In any event, the purpose of bringing that story
12 to our attention today is that Cellpro and Baxter in that
13 case could not satisfactorily conclude a licensing deal
14 on the Hopkins patent. And so when Cellpro marketed its
15 device, Hopkins and Baxter, as the exclusive licensee,
16 sued for an injunction.

17 And there might, in fact, have been a quite
18 serious delay in the introduction of a potentially
19 life-saving stem cell separation technology had the
20 District Court in that case not required, as part of its
21 determination of what the relief should be, that
22 Cellpro's infringing device actually be continued to be
23 sold until Baxter eventually came up with a product.

24 So the court designed some relief that was
25 peculiar to the characteristics of the case, and had the

1 court not done that we would have seen a substantial
2 delay in the introduction of potentially life-saving
3 technology.

4 Now, granted, unlike the patents studied by
5 Merges and Nelson, the Hopkins patent didn't necessarily
6 cover research we might consider truly foundational. But
7 presumably the effect on innovation might have been even
8 worse had the patented research been truly foundational.

9 In this regard I think that one patent to watch,
10 again in the biomedical arena, which happens to be my
11 area of focus, is the very broad patent that has been
12 granted to the University of Wisconsin on stem cell
13 lines, which the University of Wisconsin has licensed the
14 most important uses of that patent exclusively as well.

15 So that's a problem, a possible problem, with
16 broad patents in terms of cumulative innovation. Of
17 course, by the same token, we want to provide incentives
18 to the initial innovator particularly if the initial
19 innovator is producing an invention of some significance.

20 In addition there are contexts, particularly in
21 bio-pharmaceuticals, where patents serve not only the
22 traditional incentive function but also serve the
23 function of incentivizing further commercialization and
24 development.

25 At the margin, however, though, I would argue

1 that we probably want patents of relatively narrow scope
2 on upstream invention. And I just want to spend a couple
3 of minutes thinking about how we go about achieving
4 relatively narrow scope on upstream invention while not
5 necessarily having such narrow scope for more downstream
6 invention.

7 And by the way, I just want to note that when I
8 say narrow scope for upstream patents, I don't
9 necessarily mean going as far as the Federal Circuit has
10 gone in some of its cases involving the use of the
11 written description requirement, in particular such cases
12 as Eli Lilly and a case that was just decided a few days
13 ago called Enzo Biochem.

14 I think the PTO's approach to written description
15 is more suitable for creating relatively narrow scope,
16 and it's more moderate than the Federal Circuit's. It
17 has tried to moderate the Federal Circuit's approach in
18 such cases as Eli Lilly.

19 Now, how would we go about achieving narrow scope
20 on upstream patents while not necessarily having such
21 narrow scope for more downstream patents? Well, this is
22 where the nonobviousness doctrine might come in.

23 As research moves further downstream it may
24 become more predictable and certain. Given that
25 possibility at least, as a doctrinal matter, patent scope

1 can become broader as research moves downstream because
2 patent scope is dependent on how predictable the research
3 is. In other words, the more predictable the research,
4 the wider the claim scope allowed.

5 So the nonobviousness doctrine might provide a
6 simple doctrinal mechanism for the PTO and the courts to
7 allow only relatively narrow scope upstream and broader
8 scope downstream.

9 Of course, that presumes that research will get
10 more predictable as one moves downstream, and that won't
11 always be true. So are there any other levers by which
12 we can restrict upstream scope without adversely
13 affecting downstream scope?

14 Well, one rather definitive way to do it would be
15 to have a high utility standard. That way it would be
16 difficult to patent upstream invention at all. And no
17 patent at all obviously means not just narrow scope but
18 actually zero scope.

19 So using the lever of utility to eliminate
20 patenting in certain areas might be a way to go. It is,
21 however, a fairly dramatic lever. We don't necessarily
22 want zero scope for upstream patents. Probably a more
23 cautious approach would be narrow scope rather than zero
24 scope. So we should be careful about raising the utility
25 standard too high. And once again, it seems to me that

1 what the PTO has done in its recent utility guidelines is
2 an appropriately cautious approach.

3 Now, we don't know what the Federal Circuit is
4 going to think of these utility guidelines, and if the
5 Federal Circuit's interpretation of the PTO's written
6 description guidelines and the recent Enzo case is any
7 indication, the Federal Circuit may not be paying much
8 attention to what the PTO does in this arena.

9 But nonetheless I do applaud the PTO for setting
10 up a utility standard that might be useful for
11 eliminating patent scope in certain narrow areas but
12 allowing patent scope, a narrow scope, for upstream
13 patents in other areas. Thanks very much.

14 MR. COHEN: Thank you. Our second presentation is
15 going to come from Salem Katsh.

16 MR. KATSH: While they're getting that going let
17 me just comment on Professor Rai's discussion because I
18 think it points out one of the major questions that
19 confront this Commission, the Department of Justice, the
20 Patent Office. And that is the question of whether and
21 how the patent system can be fine-tuned.

22 The ability to fine-tune the patent system I
23 think is seriously in doubt, and it either operates as a
24 large blunderbuss one way or the other. But I think that
25 the economic impact of patents which can be brought out

1 by studies like you have done and the others here have
2 done are extremely important to know which way to tilt
3 the system.

4 I am not here as a representative of Shearman &
5 Sterling. I am here solely in my individual capacity as
6 someone who has practiced for -- this is my 30th year --
7 I know I don't look that -- in antitrust and the last 15
8 years in the IP area.

9 I'm not going to go through all these slides but
10 I think that I would not agree that the patent laws and
11 antitrust laws do not conflict.

12 I think the means that are used to promote
13 competition by the antitrust laws, which is to intervene
14 in the marketplace, and the means used by the patent
15 laws, which is to grant exclusivity, can and will and
16 perhaps inevitably will conflict from time to time.

17 Now, the notion that the patent law, or patents,
18 should not be considered as conferring market power, is
19 one that I have heard many times. And it has always
20 struck me as rather curious because one of the
21 foundations of the patent system is to encourage people
22 to innovate by holding out the prospect of being able to
23 charge a supercompetitive price when they have obtained a
24 patent. That is as the heart of the patent system.

25 And I find it curious that so many people are

1 defensive about that. There should be no defensiveness
2 about the fact that the patent is granted to give an
3 above competitive return as a reward for innovation.

4 Now, people don't like to use the word monopoly
5 and I certainly agree there should be no presumption that
6 any given patent will confer market power.

7 But that then again raises the question of why so
8 many patents are granted that don't confer market power.
9 Why are we flooding the system to the extent that, as Mr.
10 Frankel said, you never know? And maybe it's only the
11 rarest cases where patents can confer the reward that the
12 system is intended to confer generally.

13 There is a tremendous philosophical divide -- and
14 I'm here, in a sense, as a protagonist or a provocateur,
15 if you will -- I think there is a tremendous
16 philosophical divide between the patent approach to
17 antitrust and the traditional approach that the courts
18 have taken.

19 This is one example where the Federal Circuit in
20 1997 basically took the position that a patent is
21 inherently what it is and it should be allowed the full
22 exercise of whatever value can be extracted to it
23 regardless of who would hold it.

24 Now, we don't have that rule with respect to
25 private property. IBM is not allowed to buy the next

1 biggest computer company. But it appears that the
2 Federal Circuit is suggesting that patents somehow should
3 be considered as immune from examination under the laws
4 regulating acquisition of patents, the laws regulating
5 acquisition of market power.

6 Now, in that case, obviously, the patent did
7 confer market power and that's very good. The fact that
8 it was acquired by a company that could incrementally add
9 to its current position is what the court was
10 confronting.

11 And I think it reached a conceptual result, a
12 conceptual framework, that is not shared, certainly, by
13 other courts or by the FTC/DOJ guidelines. I'm not
14 commenting whether the result was right or wrong. I'm
15 simply commenting on the concept. I'll skip these.

16 I want to mention one point here which I think
17 it's appropriate for the economists in particular, and I
18 know they have studied it, to balance what seems to be a
19 very basic notion of rewarding invention, to balance that
20 against some of the contraindications, if you will, as to
21 the question of whether the patent system is the panacea
22 that we rely upon for innovation. Is it the driver that
23 people say it should be?

24 I sponsored a National Institute's program in
25 1984 when I was active in the antitrust law section of

1 the ABA on the interface, and I was amazed that there was
2 no consensus that society was better off having had a
3 patent system than it was if it didn't. But there was no
4 empirical way to tell because there was no control. I
5 mean, we've had it. And it is supported.

6 But the reason that the Supreme Court upheld
7 state law on trade secrets from a constitutional
8 challenge as being in conflict with the patent clause was
9 because there were so many areas that patents could not
10 cover.

11 We're told that patents are necessary to prevent
12 free-riding. It's certainly true that that is a concern.
13 But that's also a concern in a host of other areas such
14 as industrial design, mail order houses that take free
15 rides on manufacturers that invest and make new products,
16 and the fact that trade secret protection is not
17 absolute.

18 So free-riding per se is a factor, but I don't
19 think it's the only factor that can be said to justify
20 the patent system. I think the reason that the patent
21 system is under question these days is because of a
22 number of factors.

23 As I read the Graham v. Deere decision it assumes
24 a relatively high bar to patentability. The whole tenor
25 of its discussion of the views of Thomas Jefferson as

1 they evolved from being anti-patent to being pro-patent
2 to writing the first patent code, to upholding talking
3 about the Hotchkiss case, all went to the fact that this
4 was an exclusive right to be granted to a true invention.
5 And they were grappling, of course, with what invention
6 or nonobviousness meant.

7 Let me go back for one second here. There are
8 questions that have not been answered about the fact that
9 the PTO is completely underfunded. How can people come
10 and say that the patent system is working properly or
11 adequately if it's working minus \$700 million that it
12 said it needs to operate properly? You can't have it
13 both ways.

14 The system is suffering dramatically because the
15 examiners don't have enough resources. There aren't
16 enough examiners. There's not enough expertise brought
17 to the system.

18 I live in the real world of counseling clients
19 and litigating for clients with claims that are drafted
20 on the cheap and then get asserted in litigations, with
21 patents, as the Supreme Court said in Graham -- I don't
22 think it's on this slide -- they said, quote, we are at a
23 loss to understand what the Patent Office did. How many
24 of us day-to-day ask ourselves that same question? So
25 the underfunding, you can't make the argument that you're

1 underfunded but everything's fine. Everything is not
2 fine.

3 The Federal Circuit's inability to define the
4 scope of a Doctrine of Equivalents, the impact of the
5 long time lag between filings and final actions, the fact
6 that all patents have the same term, the fact that
7 business method patents can be introduced in 1998, the
8 fact that Festo can wipe out billions and billions of
9 dollars of prior investments that were based on the fact
10 that companies were willing to pay for certainty against
11 the uncertainty of the Doctrine of Equivalents.

12 That case wiped out billions of dollars of
13 investments that people made. And I know because I'm
14 involved in counseling on big mergers.

15 And if there's a patent out there that has to be
16 considered in due diligence, you can quickly tell if
17 there is a literal problem. But then you have to
18 consider is there an equivalents problem.

19 Prior to Festo there was an equivalents problem,
20 if there was an equivalents problem. After Festo, if
21 there was an amendment, there's no equivalents problem.

22 Now, prior to Festo, people paid a lot of money
23 when I would tell them that you've got an equivalents
24 issue and therefore it could go to a jury. And if it
25 goes to a jury, you can't predict the outcome. People

1 paid a fortune to be free of that uncertainty.

2 I think the Federal Circuit frankly has not been
3 the success that it was intended. I don't think the
4 venue, the forum shopping argument, had any merit.
5 Frankly, I have great respect for the judges as judges,
6 but that is not an expert court. There are only a
7 handful of judges on the Federal Circuit that have any
8 patent experience. There are less than that that have
9 any prior judicial experience.

10 We're not dealing with a court, in my view, of
11 the same caliber as the Second Circuit, the D.C. Circuit,
12 and yet we're vesting in this court with the issuance of
13 patents which we want to confer monopoly power, legal
14 monopoly power.

15 Now, I agree that the real issue is one of
16 obviousness. What is obvious? Did Graham erect a high
17 bar? Has the Federal Circuit lowered the bar? In any
18 event, what should it be and who is qualified to judge?
19 And how can the Patent Office make a real determination
20 without help from outside experts?

21 You can't take an engineering student and put him
22 into a position where he is evaluating whether somebody
23 should be granted a patent. That doesn't make sense.

24 And I want to just point out the second quote
25 from Edison intrigues me because the patent disclosure

1 tells you how to make a product or how to use the
2 disclosed process. It doesn't tell you everything that
3 went into the successful result.

4 And it's that 10,000 ways that didn't work that
5 the company will know about but that the public won't
6 know about that represents the true technology of that
7 company that will stay there as trade secret, as its
8 infrastructure, and that will allow it to continue to
9 improve and innovate.

10 So the patent does not represent all of the
11 technology by any stretch that went into the final result
12 unless it were to tell you the 10,000 trial-and-error
13 experiments that were done, which it doesn't have to.

14 From my point of view as a practitioner I can
15 tell you that the underfunding of the PTO, the changing
16 of standards by the Federal Circuit has created a crisis
17 of uncertainty. And it's a crisis for investors. It's a
18 crisis for attorneys. It's a crisis for managers and
19 something really ought to be done about it.

20 Bill's looking at me and I'll stop, all right,
21 but I just want to read one thing -- well, I'm sorry.
22 What I wanted to read to you was from the presidential
23 proclamation in 1965 or 1966 following Graham or prior to
24 Graham that established the presidential commission to
25 study the patent system.

1 And if you read that executive order it has
2 findings signed by President Johnson to the effect that,
3 and I may find them and point them out later, that
4 technology is exploding. The number of applications is
5 exploding. The PTO is underfunded. It writes about the
6 technological explosion of innovation in a way that one
7 writes about it today.

8 And it writes about the problems in the system
9 the same way that we're talking about them today, whether
10 one thinks they're more or less severe. And it looked
11 for improvement.

12 The Commission came back with 35 recommendations.
13 Some of them, over the years, have been adopted but in
14 general that effort never seemed to take root. So I
15 would hope, as somebody that practices in this area and
16 confronts these issues day to day, that this Commission
17 and the Department will seriously consider the need for
18 strategic reform and not mere tinkering. Thank you.

19 MR. COHEN: I think our panelists have been
20 gnawing at the bit to get into the discussion. And
21 probably what I think we ought to do is to begin with
22 some of our general discussion, move on, take our break
23 and come back for the second half, start off the second
24 half with Suzanne, if that's all right with you, and then
25 we'll move into some of the more detailed items item by

1 item.

2 What I'd like to do is give you all an
3 opportunity to join in. When you have points that you
4 would like to make, what I suggest you do is that you
5 just turn your tents up on their sides, and I'll
6 recognize you in turn.

7 Perhaps a good place to begin would be by trying
8 to think generally about what principles economics can
9 help provide for assessing the patent system.

10 And what I would suggest is that maybe we can try
11 to lay out a framework. I'll start with a framework that
12 was suggested by Kenneth Dam in one of his articles,
13 tinker with it a little bit, and put it before you.

14 And I think what he suggested was that on one
15 hand with the patent system you have a method for
16 creating incentives to innovate by enhancing
17 appropriability while simultaneously disclosing what has
18 been invented.

19 And I'll add in here on this side of the equation
20 that the system can also serve as the basis for raising
21 capital in some instances.

22 On the other hand though you have potential
23 problems. One potential problem is the possibility of
24 market power. Another is the possibility of
25 inefficiencies from rent-seeking activity. And another

1 would be the possible impediments to follow-on
2 innovation.

3 I'll add still another which we'll probably spend
4 some time on this afternoon which is the potential for
5 generating uncertainty as to the existence or reach of
6 patent rights.

7 I'd want to throw out to the panel just generally
8 whether you think this provides an adequate framework for
9 discussion of the issues, should anything be added,
10 subtracted or modified as our framework that we can
11 return to as we go item by item later. I see Suzanne has
12 -- is your tent up?

13 MS. SCOTCHMER: Yeah.

14 MR. COHEN: Yeah.

15 MS. SCOTCHMER: Actually, I had a narrower
16 question so maybe this isn't the right time to ask it but
17 I had the narrower question for Mr. Katsh, I think, with
18 respect to uncertainties that have been generated or are
19 generated by changes in law in judicial decisionmaking,
20 rulemaking always has retroactive effects on previous
21 right holders and so on. And that can be extremely
22 harmful from the point of view of equities and so on.

23 Economists usually think about rulemaking though
24 from the point of view of the prospective view, which is
25 to say, what effect does it have on incentives for

1 innovation which is being contemplated rather than
2 thinking about the equity effects and harms it may have
3 on innovators who have already completed their task,
4 which I don't want to minimize.

5 But I would like you to address the question, for
6 example, with respect to Festo, not from the point of
7 view of harms rendered to previous innovators for whom
8 the rules changed but rather with respect to the
9 prospective question of its effect on the incentive
10 implications of the patent system.

11 MR. KATSH: Well, I think to briefly respond, I
12 would note a case I didn't have time to discuss which is
13 the recent en banc decision in Johnson and Johnston,
14 leave the trademark issue aside for a minute, where the
15 court held that something disclosed in the specification
16 but not claimed in the patent could not then be claimed
17 under the Doctrine of Equivalents, even though it was
18 clearly within the scope of what would otherwise be
19 considered an equivalent.

20 Now, the reasoning of the court was harkening
21 back to a case in 1881 where the Supreme Court had held
22 that things that are disclosed or that are apparent on
23 the face of a patent but not claimed are dedicated to the
24 public.

25 Well, talk about uncertainty. Here's an en banc

1 decision with all sorts of opinions, a strong dissent by
2 Judge Newman, resurrecting now a doctrine of public
3 dedication as a new argument that injects further
4 uncertainty into the ability to counsel and will create
5 much more litigation as now people will argue that
6 whatever was disclosed cannot be considered equivalent,
7 and even if it wasn't disclosed if it was obvious at the
8 time of the invention, it can't be equivalent.

9 So it's going to be a mad house because people
10 will now argue that only things that were not obvious
11 should be within the scope of a claim that was granted at
12 the time when this alleged equivalent was not obvious.

13 So Festo is a manifestation, if you will, of the
14 fact that it's not one case or one decision. It is being
15 confronted with a court that seems internally paralyzed
16 to create and maintain a cohesive and consistent body of
17 case law.

18 And it's more than simply wiping out past
19 investments. It's what do you tell clients about the
20 future patentability of an invention, whether to keep it
21 a trade secret or not. That's my response.

22 MR. COHEN: I see Scott.

23 MR. KIEFF: Thank you. I guess a couple of the
24 usual disclaimers. Unlike Suzanne Scotchmer I'm not an
25 economist so I need to be careful what I say since that's

1 not my -- I'm not a doctor and I don't play one on TV.

2 And, Salem, you talked about your 30th year. I'm
3 now just past my 30th year. By the way, that's in life.
4 So I defer to your great experience.

5 With those two disclaimers and deferences on the
6 table, the J and J case you mentioned, Johnson and
7 Johnston case you mentioned, raised an issue that I think
8 is nicely connected to the point Suzanne raised.

9 It seems to me it goes like this. We could have
10 a clear rule that says what's disclosed is an equivalent.
11 We could have a clear rule that says what's disclosed is
12 not an equivalent.

13 The decision between those two rules will
14 allocate wealth between plaintiff and defendant. But it
15 is not clear to me that it has for society any greater or
16 less social cost or social benefit.

17 Indeed, maybe the uncertainty generally
18 associated with what we do with the Doctrine of
19 Equivalents has some cost. Those could be in different
20 types.

21 There could be general uncertainty cost. There
22 can be specific rent-seeking or social choice costs where
23 parties in any one case try to articulate a rule that
24 sounds crisp in their case but turns out to be quite soft
25 in application downstream.

1 Those would be social costs. Maybe a solution
2 then is to say no Doctrine of Equivalents. That might
3 indeed eliminate a lot of those social costs.

4 Indeed, I thought the point you were going to
5 make when you discussed the billions of dollars
6 sacrificed by narrowing the scope of the Doctrine of
7 Equivalents I thought you were going to say, gee, look at
8 all these rational folks choosing to spend that much
9 money to get certainty.

10 That's what I thought, and that's at least one
11 way to look at it, which is to say, sure by decreasing
12 scope in that sense you are sacrificing some wealth for
13 some folk who got it at that time.

14 Prospectively, that might do a great deal for the
15 system downstream. Patentees and those who need to
16 negotiate with and around patentees -- around is a big
17 part of it -- they will all know where the fences lie and
18 you don't have the uncertainty of the hidden fence or the
19 shifting fence. Just some thoughts to blend those two
20 sets of comments if that's helpful.

21 MR. COHEN: Roger.

22 MR. PARKHURST: Thanks, Bill. I was going to
23 comment also with respect to some of Salem's ideas. Some
24 of us started litigating patents before the Federal
25 Circuit existed. And my question would be are we better

1 off today than we were before 1982 in terms of a patent
2 system?

3 Salem mentioned that in work like due diligence
4 work that today the scope or the effect of patents on
5 such considerations may be huge, and no doubt I would
6 suggest to you, and maybe I should ask a question not
7 suggest it, was that the case before 1980?

8 I suggest that today patents are a much more
9 material asset on the balance sheets of patent owners
10 than they were in 1980.

11 Skipping backward to the outset of your
12 presentation, you focused upon what is the reward that
13 the patent system offers the patentee and you focused
14 primarily upon the super-market-price possibility.

15 I'd like to harken back to what Ken Frankel was
16 saying this morning in talking about the simple right to
17 exclude which, in effect, while not affirmatively giving
18 the right to practice, does provide some exclusivity for
19 some period of time depending upon how the patent owner
20 may or may not choose to exercise his right to exclude.

21 So the patent owner may not need to be seeking
22 the super-market price if he simply has a market. Just
23 some thoughts on some of the things you brought up.

24 MR. COHEN: All right. We're going to be devoting
25 most of this morning to taking a look at the substantive

1 criteria for issuing patents and determining
2 infringement.

3 What I'd like to do with you is to explore some
4 of these basic patentability criteria as applied and
5 compare them against what might be the ideal.

6 And we're going to get into asking ourselves have
7 we been asking the right questions in fashioning the
8 various requirements and in applying the various
9 statutory requirements.

10 I guess perhaps a starting place would be to get
11 some views as to the degree of discretion that is likely
12 to reside in the PTO. Does the PTO have meaningful
13 discretion in applying these standards, in applying
14 nonobviousness and applying utility, written description,
15 enablement, et cetera? Or are we necessarily speaking
16 this morning to the courts and to Congress? Arti.

17 PROF. RAI: I think Scott was first.

18 PROF. KIEFF: I've already gone. I'm happy to
19 wait.

20 PROF. RAI: As somebody who has spent some time
21 recently, and who doesn't pretend to be a scholar of
22 administrative law, but has spent some time recently
23 studying it because I've been very disturbed by what I
24 perceive as the apparent lack of power of the PTO from an
25 administrative law standpoint, it seems to me that given

1 the current Supreme Court jurisprudence on when courts
2 have to defer to the PTO, in particular a case called
3 Mead which came down last year, it's probable that the
4 Federal Circuit's position of not deferring to the PTO is
5 the correct position as an administrative law matter
6 because the PTO does not have adversarial proceedings.

7 And Mead suggested strongly that adversarial
8 proceedings of some sort would be necessary as a
9 prerequisite to deference to an agency determination.

10 Now, that strikes me as a real problem because it
11 strikes me that an administrative agency is the
12 appropriate place to place the sort of power of
13 determining how these particular substantive criteria
14 should be applied because they, in theory at least,
15 should have the resources and expertise to engage in the
16 sophisticated economic analysis necessary. The courts
17 simply cannot do that.

18 Whether Congress can do that is another matter
19 but it seems to me that the courts clearly cannot and the
20 courts, and the Federal Circuit in particular, seems to
21 be the place where this is supposed to be happening. I'm
22 not sure they're doing it, and I'm not sure they could do
23 it if they wanted to.

24 MR. COHEN: Scott.

25 MR. KIEFF: If it's okay maybe to back up to a

1 slightly more general level on these standards. Is that
2 all right?

3 MR. COHEN: Yes.

4 MR. KIEFF: I do think the point Arti is raising
5 here is a really important point. I suspect you guys are
6 going to want to explore that more this afternoon, kind
7 of where we fight these battles. Do we do it in the
8 Patent Office? Do we do it in the courts?

9 But by no means by talking about this other thing
10 do I, or could I, devalue the importance of that point.
11 It's a very good point. But if I may talk a bit more
12 generally about some of the substantive standards.

13 And we hear a lot. We heard it today that times
14 are changing. Technology is changing. Maybe the law
15 needs to change too. We heard it in the '60s during the
16 President's commission. We hear it again today.

17 Again, you're absolutely right. The language,
18 the rhetoric are remarkably similar. The notion that law
19 needs to change to catch up with technology, I guess,
20 could make some sense. It has, I think, great initial
21 appeal.

22 I don't know how it maps onto a law designed to
23 deal with new technology. And, in fact, as the Supreme
24 Court said in the Chakrabarty case, the role that
25 unanticipated inventions are without protection would

1 conflict with the core concept of patent law, that
2 anticipation undermines patentability.

3 So, in fact, patent law has got to be the best
4 candidate. If we had to pick a law that doesn't need to
5 change to address new technologies it's probably going to
6 be patent law because that is a law that was written to
7 encourage new technologies. It's the law that has new
8 technology on its mind. That's its raison d'etre. It
9 probably doesn't need to change.

10 So that's an important thing to keep in the back
11 of our minds as we think about what types of shifts we
12 would want to make, whether the system is so
13 fundamentally broken that it needs to be really amended
14 in important ways.

15 Again, this is the system designed to encourage
16 new stuff. In fact, the more unanticipated, the more
17 unobvious, the more patentable under the patent system,
18 not the more strange under the patent system.

19 So let's, I think, at least keep those standards
20 in the back on our mind as we think about obviousness and
21 as we harken back to the Graham case.

22 And remember Graham and Section 103 were an
23 effort to give predictability to patent law; 103 was
24 written to create an objective standard to replace the
25 vague concept of invention with an objective standard for

1 nonobviousness.

2 And let's think about whether that type of
3 approach can work. Maybe it doesn't. I don't know. But
4 at least that's the fantasy. That's the goal.

5 MR. COHEN: Stephen.

6 MR. KUNIN: Well, standards of patentability is
7 probably my favorite subject. There are a couple of
8 points I'd like to make. First of all, I'd like to maybe
9 build on a point that Arti was making with respect to the
10 question of deference.

11 Certainly, one of the debates I think that has
12 been going on for some time is the debate over what is a
13 matter of fact versus what is a matter of law.

14 And particularly what happens in many of these
15 cases is that the Federal Circuit will essentially call
16 something a matter of law which in essence means that
17 they get to look at everything de novo.

18 And even when the Supreme Court dealt with the
19 Dickinson v. Zurko case, deference in that respect had to
20 do with fact finding. And of course no good deed shall
21 go unpunished.

22 And if you look at what has happened post-
23 Dickinson v. Zurko with cases In re Gartside and others,
24 you will see that in essence all that does is it raises
25 the level with respect to getting deference on

1 fact-finding because now you've got to do substantially
2 express fact-finding, much like a district court judge
3 does, in order to get that level of deference.

4 It's interesting on the issue of Mead deference,
5 and before that Chevron deference, certainly I agree with
6 Arti that the Fed Circuit in Merck v. Kessler said that
7 we don't have substantive rule-making authority only
8 interpretative rule making and therefore we could not get
9 the kind of deference that perhaps some of us would like
10 to see happen.

11 And, of course, interesting for those of you who
12 had the opportunity to be at the Cal Berkeley conference
13 that many of the panelists here were able to be on a
14 number of the panels. The keynote speaker was Judge
15 Michel.

16 And it was quite fascinating to me to sit there
17 in the audience, and this was later reported in an
18 interview that Judge Michel gave, that he said, well,
19 maybe we're doing the wrong thing in terms of having all
20 of these hearings and the like.

21 I'm not sure that that necessarily is going to
22 lead to the right outcome, and if I were asked one of
23 many things to do, I think that Congress ought to
24 consider giving the Patent and Trademark Office
25 substantive rule-making authority.

1 I kind of almost fell out of my chair because
2 Hillary and I had talked about that maybe an hour or two
3 earlier. And I was shocked to hear the Judge say that.
4 But that leads me to my next point. I think there is an
5 interesting issue with respect to PTO influence.

6 First of all, the long history of, certainly I
7 would call the common law on patents in the states, has
8 been in many instances a graveyard of In re cases where
9 the law has changed because first CCPA then maybe the Fed
10 Circuit has essentially overturned decisions of the Board
11 and changed the law.

12 And in recent times in the area of official
13 notice in Section 103, I'm sure that some of the
14 panelists will talk about cases like In re Kotzab, In re
15 Sang Lee and so forth which, in essence, makes it
16 extremely difficult to satisfy a 103 standard.

17 I recall even in my own progression, as Bill
18 Cohen was mentioning in my introduction, is I remember
19 examining cases at the time when we used a standard where
20 you could say you had the collective suggestions of the
21 references, entering the block with In re Keller-type of
22 standard, and now with cases like Dembiczak and Kotzab is
23 like it never existed in the law.

24 But what we have done, and of course I was
25 pleased to hear in some of Arti's presentation the aspect

1 of what attempts we have made in terms of the examination
2 guidelines approach, where we do public notice and
3 comment and we try to fill in the gaps.

4 Certainly, the Federal Circuit, or even any
5 District Court, has only a multitude of cases on a case
6 or controversy, and as was mentioned, we have to deal
7 with hundreds of thousands of cases every year.

8 So there are a lot of ways that we can deal with,
9 I'll call it, hopefully advancing the law because we have
10 to fill in the gaps. And I think we do that through
11 examination guidelines.

12 Sometimes the court finds favor with our
13 guidelines. I can give you a number of cases where they
14 have been quoted favorably by the court. And I have seen
15 cases where the court has said, well, in the majority we
16 agree. And here's the section from the guidelines. On
17 the dissent we used the guidelines. And you can use the
18 guidelines for any position you want to reach.

19 I think Enzo was a very recent example of where
20 both Judge Lourie and Judge Dyk were quoting from our
21 guidelines in terms of once again not saying they were
22 given deference but just to bolster their own
23 perspectives.

24 So I think this is an interesting issue in terms
25 of how we deal with many of these things, both from a

1 judge-made law perspective as well as administrative rule
2 making.

3 MR. COHEN: I see a couple of other signs up.
4 What I would like to do is sort of enrich the discussion
5 by throwing out another issue which you can deal with
6 either now or in combination with what's already out
7 there.

8 And that's the issue of the degree to which
9 there's likely to be any ability to tailor substantive
10 patenting criteria to take account of differences of
11 various types, differences between industries,
12 differences between the stages in the research process as
13 Arti alluded to, differences between different types of
14 competitive settings.

15 We have had some who have suggested that perhaps
16 you might have a different optimal result in a network
17 context than in other contexts.

18 One of our speakers has suggested that there
19 already is some tailoring of this type going on, although
20 not directly acknowledged. I think Professor Burk
21 suggested there may be a higher standard for
22 nonobviousness in software than in biotech but a more
23 stringent standard for disclosure in biotech than in
24 software.

25 How much room is there for flexibility within the

1 system? How much is necessarily one size fits all? With
2 that set of issues out there I think Professor Scotchmer
3 had her sign up first.

4 PROF. SCOTCHMER: I have two questions. I would
5 like to ask Professor Rai at some point to revisit the
6 question of why she thinks that upstream patents should
7 be narrower than downstream patents, just to articulate
8 very clearly for the record why you think so.

9 But my second question, as well, which is
10 unrelated: implicitly if not explicitly, comments that
11 we have had at this table this morning have gone to the
12 fundamental question of why intellectual property, of
13 what is the objective of giving intellectual property?

14 And I think Mr. Frankel raised the issue, for
15 example, that sometimes comes up about whether we should
16 give intellectual property or strengthen it or tailor it,
17 to use Mr. Cohen's language, to cost or sweat of the
18 brow, the old sweat-of-the-brow standard, how should we
19 think about that, as opposed to rewards for creativity,
20 rewards not for the cost invented or compensation for the
21 cost invented but rather rewards for the value
22 contributed, socially?

23 Those are two distinct and different fundamental
24 views of what should be rewarded. And the issue of
25 anticipation, it seems to me, as represented by Mr.

1 Kieff, embodies the idea that to the extent that
2 anticipation means you knew you could get it if you
3 invested sweat of the brow and a lot of money but that
4 bars patentability, argues on behalf of rewarding value
5 created regardless of cost as opposed to rewarding
6 creativity only, in fact, when you needed to reward it in
7 order to reimburse the cost. All of which goes to the
8 question of should we think about intellectual property
9 as simply a reward for value contributed or should we
10 think about it more as an economist would like to think
11 about it, which is we want to reward creativity and value
12 contributed, but we don't want to reward it more than is
13 necessary to get it, but to make the latter calculation
14 one has to consider sweat of the brow and costs.

15 So how do those two views of what fundamentally
16 we're trying to accomplish fit together? And I believe
17 we have heard, at least implicitly, two views of that in
18 the panel this morning.

19 MR. COHEN: Anybody have a response to those
20 questions? I see lots of signs up.

21 PROF. RAI: I don't know if I should go out of
22 turn.

23 MR. COHEN: Arti, you have the first part of it.

24 PROF. RAI: Yeah, just briefly. The reasons that
25 I think that upstream patents are better left narrow than

1 downstream patents is basically based upon my position
2 that when you have broad upstream patents for the reasons
3 articulated by Merges and Nelson in their piece, it's
4 often difficult to get the downstream development that
5 you would like to get.

6 In addition, one point that was not articulated
7 by Merges and Nelson which I think is interesting is that
8 with upstream patents there's always an incentive for
9 further development because there's the possibility of
10 downstream patents down the line whereas with downstream
11 patents, and let me give you a concrete example, a patent
12 on a drug, for example.

13 At that point that patent has to serve in and of
14 itself as the incentive for further development,
15 commercialization, specifically going through the FDA
16 approval process. There is unlikely to be another patent
17 down the line that will serve as that incentive.

18 So I guess in brief it would be reasons
19 articulated by Merges and Nelson basically that it's the
20 transaction cost difficulties of licensing upstream broad
21 patents can be serious.

22 And two, that by definition, upstream patenting
23 means that there is downstream patenting to be had to
24 provide an incentive to move further down the development
25 path.

1 MR. COHEN: Mark.

2 PROF. JANIS: A variety of comments here and they
3 start off from the theme that you raised just a minute
4 ago about whether tailoring in substantive patent
5 standards is possible, whether it's a good thing.

6 You asked whether there was room to do it. I
7 would say it certainly is going on and I think probably
8 it's always been going on in the patent system every time
9 a judge had to decide a case in a particular technical
10 area.

11 So I think when we talk about this issue of one
12 size fits all, what's embedded in that question is really
13 the question of the process by which this tailoring is
14 going to proceed.

15 And to that point I wonder about the efficacy of
16 trying to impose large-scale, legislative reform to
17 accomplish this tailoring, for example, passing
18 particular statutory standards for business method
19 patents or particular standards for biotech patents, or
20 whatever you might imagine because I wonder if that leads
21 us to a kind of Balkanization of the patent statute. And
22 so I throw that out for comment. I just think that's a
23 matter of concern. I think you can see that happening in
24 the copyright statute, for example.

25 Another point, I think this relates to Scott

1 Kieff's earlier point about how the patent law changes
2 with changing technology or whether it's necessary for
3 that to occur.

4 Again, I suppose I have a similar observation. I
5 think we ought to be cautious about getting too caught up
6 in concerns about exploding technology and a view that
7 what's happening today is unique, that technology is
8 moving so quickly and this has never occurred before.

9 Salem Katsh mentioned that there was similar
10 rhetoric in 1966, and he could have said that there was
11 similar rhetoric in 1866, literally. In 1866, many of
12 these same objections were raised. Many of these same
13 solutions were proposed.

14 So that really leads me again to say maybe when
15 we look at this choice between strategic reform and
16 tinkering, which is how Salem Katsh put it, maybe we
17 ought to speak in favor of a little tinkering and in
18 favor of going a bit slow. Well, maybe I'll leave it
19 there.

20 MR. COHEN: I see two more up and then we'll take
21 those two and then go to a break. Jay.

22 PROF. KESAN: One quick point before I address the
23 issue of disclosures and divergence in different
24 technologies and so on. To the extent that the J and J
25 case that Salem Katsh referred to suggests that you have

1 to be careful about policing the line between what you
2 claim and what is publicly dedicated, I think whenever
3 you sort of have this kind of realignment by the courts
4 it could be really beneficial.

5 For example, it could really invigorate, reissue
6 and continuation and all these other practices, so that
7 some of the same uncertainty that Mr. Katsh is concerned
8 about might actually go away.

9 And so you may actually have a reduction in
10 overall social costs of patents because now you've got a
11 much clearer property right. In other words, police that
12 boundary more carefully. Be careful. And you've got
13 some chance within the statute to fix it even after your
14 patent issues. And that may not be a bad thing. But
15 that was just one minor point.

16 The issue of applicability of these standards in
17 different contexts and they're not being done uniformly
18 doesn't bother me as much as the fact that it's not being
19 done properly in the individual technologies themselves.

20 In other words, to the extent that there is good
21 policing of enablement, if you will, at least if we look
22 at the case law in biotechnology and no policing is what
23 I would say in software patents, that sort of divergence
24 does not bother me as much as the fact that there is no
25 policing in software patents per se.

1 And I want to spend just a minute or two on
2 software patents because I think this is a very important
3 issue, and it's an issue that I follow fairly closely.

4 I do agree that there is some heavy policing on
5 obviousness in software patents. This is in keeping with
6 what Dan Burk had mentioned. And the problem in this
7 area is that very high-level functional descriptions have
8 been found to satisfy enablement in software cases.

9 In other words, if you look at MPEP Section 2106,
10 they are perfectly happy with what they call reasonably
11 detailed flowcharts. And what does that amount to? That
12 just amounts to a function and nothing else.

13 The Federal Circuit in the *Fonar v. GE* case and
14 the *Northern Telecom v. Datapoint* cases has basically
15 said that anything beyond very broad functional
16 descriptions is just mere clerical function and so a lot
17 of software, the innovation lies in how you execute that
18 function.

19 So what ends up happening is that it really
20 amounts to essentially giving patents to ideas is what it
21 comes down to. It's sort of like saying I have an idea
22 for a washer and a dryer in one machine. You don't get a
23 patent for that. You get a patent for exactly how you're
24 going to make that washer and dryer.

25 And this is a serious problem in software because

1 what ends up happening is that you have patents that use
2 different terminologies because companies use different
3 terminologies they're patenting the same thing, numerous
4 examples of that.

5 There is no prior art being built up and that's
6 why -- because once again the knowledge, the disclosure
7 is not there. That's why we end up with patents on
8 things like option pricing that's been known for decades,
9 because you say things slightly differently.

10 And, finally, the same problem is the reason why
11 we don't have a good perception of the so-called business
12 method patent, which is really a disservice to the
13 software community, I think, because most of the
14 so-called business method patents are commercial, are
15 software implementations of commercial transactions.

16 Not all of them but a lot of them are your
17 engineering and software, a commercial transaction, and a
18 patent should be given for the innovation in the
19 software. And to turn around and call it a business
20 method is sort of not doing justice to the underlying
21 technology and the underlying innovation. I'll stop
22 right there.

23 MR. COHEN: Salem.

24 MR. KATSH: Just a few quick points. I'm not sure
25 of the fact that reforms have been advocated since -- I

1 appreciate the correction -- 1866 along the same lines
2 necessarily is evidence that the reforms should not have
3 been implemented. One could argue that we wouldn't be
4 here.

5 The second point is that I think that the '52 Act
6 was meant to change the law. I think the Graham Court
7 was very clear in '65 or '66 that there was no change in
8 the law. What there was was in the Court's words a,
9 quote, unquote, notorious difference between the
10 standards applied by the courts and the standards applied
11 by the PTO.

12 And that continued subsequent to Graham. It was
13 true before Graham. And you had an enormous percentage
14 of patents invalidated in those time periods. So from
15 the certainty point of view, if I'm a businessman and I'm
16 looking at a patent problem in an acquisition, although I
17 didn't do that kind of work in pre-Federal Circuit, I'm
18 sure that patents -- people did not pay as much for
19 certainty in those years because there's a greater chance
20 the patent would be invalidated.

21 Finally, in my mind I think the rule-making
22 proposal is something that should be seriously looked at.
23 To me obviousness is a quintessential value judgment. I
24 don't know how you can get around that.

25 And it's like Section 7 of the Clayton Act. It

1 was never changed, but the Justice Department and FTC
2 decided to change how it would be enforced. That was a
3 value judgment. The words of the statute didn't change
4 but it was a value judgment that there wouldn't be Von's
5 Groceries.

6 That can be done from a policy point of view by
7 an agency that is well funded, brings to bear the right
8 kind of scientific and expert expertise, and goes through
9 whatever you want to call that.

10 Now, the DOJ is not, you did by guidelines. It
11 could be done by guidelines. It could be done by rule
12 making. But I would have to say that fleshing out
13 specifics on what is expected when you apply for a
14 business method patent and what is expected when you
15 apply for a biotech patent and go through it in a way
16 that is meaningful in the sense that the Merger
17 Guidelines were would have to have a beneficial effect.
18 I'll just leave it there.

19 MR. COHEN: Okay. Let's take a ten-minute break.
20 Try to get back and restart at 11:25. We will pick up
21 with Suzanne Scotchmer's presentation, and then we'll
22 start going element by element through the various
23 criteria.

24 **(Whereupon, a short recess was**
25 **taken.)**

1 MR. COHEN: We're going to begin with a
2 presentation from Professor Scotchmer, and I'll turn it
3 over to her and take a seat out of the light.

4 PROF. SCOTCHMER: Well, I want to return to Arti
5 Rai's subject for this morning, which is cumulative
6 innovation and how the two most controversial aspects of
7 intellectual property operate in that context.

8 And I'm doing that with a view toward trying to
9 sort out how should we think about patent scope or patent
10 breadth and how should we think about standards of
11 patentability or the bar for patentability standards for
12 getting protection, in this context, if we're thinking
13 about kind of the consequentialist view of what
14 implications does it have for progress, the rate of
15 technological transformation and so on.

16 In this context there have been at least two
17 views articulated as to the policy objective. One view
18 that has been articulated is that in this context of
19 cumulativeness where innovators build on prior art, they
20 build on prior inventions that often have been protected
21 by patents or other intellectual property, one view is
22 the focus on the question of how does intellectual
23 property operate to divide the profit so that every
24 generation is protected?

25 So that in this context where you have blocking

1 patents, where it may well be that an improver to a
2 technology both has his own protection but infringes
3 prior patents so that there are blocking protections that
4 have to be resolved through license or other kinds of
5 agreements among firms, all of those have implications
6 for the division of profit. And of course, the division
7 of profit among the sequence of innovators has enormous
8 implications for the incentive to create that sequence of
9 innovations.

10 So that's one view. And that's the view that's
11 most closely represented in the economics literature on
12 this topic, addressing that question of the division of
13 profit and how these two important features of
14 protection, the standards for protection and breadth of
15 protection operate there.

16 The other view which I discussed in some detail
17 at the Berkeley hearings in February, and I won't revisit
18 very much here, is the view articulated by Kitch in the
19 1970s, who was not so much concerned about the division
20 of profit and how the division of profit sets the
21 incentives for each sequential innovator but rather
22 thinking about intellectual property in this context as
23 giving a platform for the organization of research
24 downstream.

25 So I'm putting that up to remind you of that. If

1 anybody wants to see my views on it, you can find my
2 views in the testimony I gave in February in the Berkeley
3 hearings.

4 So here I want to discuss how standards of
5 patentability and scope of protection operate to
6 determine the division of profit, hence to determine the
7 incentives to make continuing progress.

8 As an example for this, I want to return to an
9 old technological subject which we resolved in one way
10 and then resolved in another way and that's semiconductor
11 chips.

12 Semiconductor chips, computer chips, are a poster
13 child for this context of cumulative innovation. My
14 understanding of how progress happens in chips is that
15 it's precisely through reverse engineering, understanding
16 circuitry on previous chips, trying to make improvements
17 to those chips going forward from the prior art. So it's
18 a poster example of cumulateness.

19 In the 1970s and 1980s the chip manufacturers
20 became very concerned about the erosion of their
21 incentives to make progress in this art because there
22 evolved technologies for reverse engineering chips. And
23 so it came to be the case.

24 If you want to find a source for the information
25 I have given here on the chip industry and other matters,

1 I have a paper coming out this month actually in the Yale
2 Law Journal on reverse engineering. And this information
3 and sources for it are cited there.

4 But some information on this matter was that
5 chips, of course, are expensive to develop from the
6 ground up, and the information I found was on the order
7 of \$40- to \$50 million, and very cheap to clone, on the
8 order of \$50,000 to \$100,000. And that's because it
9 became mechanized, the unmasking of the circuitry of
10 chips.

11 And so, of course, this created an enormous
12 conflict within the industry, where the chip
13 manufacturers were afraid that their incentives were
14 being eroded and that the whole chip industry would die
15 because the inventors, the market power, their ability to
16 recoup costs was being eroded.

17 What this illustrates for the context, and I'm
18 using this as a model, as an example, I don't really want
19 to talk about chips. I want to talk about it as a model
20 for a broader context. What it illustrates is
21 conflicting economic goals.

22 On the one hand what cumulateness is about is
23 that subsequent innovators use the knowledge created by
24 prior innovators to create further progress. And that's
25 a good thing. It's the foundation of progress. And all

1 academics know that that's how academic progress proceeds
2 and it's also how industrial progress proceeds.

3 The problem, of course, is that those who learn
4 from you can be your nemesis, can cause your demise, so
5 that when subsequent innovators replace you, build on
6 your work, make a newer, bigger, better improved chip,
7 you're dead as the prior innovator, which sets up a
8 conflict.

9 On the one hand is the prior innovators who
10 create the foundation for progress. On the other hand
11 your successors, using your foundation for progress, can
12 wipe you out in the market. That creates conflicting
13 economic goals and it's the role of the intellectual
14 property system to mediate that conflict. And so it's
15 how does the intellectual property system mediate that
16 conflict that I want to discuss with you.

17 The Semiconductor Chip Protection Act of 1984,
18 which, as I understand it, is no longer very important in
19 protecting chips because chips are now patented, is
20 interesting not because it's an important form of
21 intellectual property protection at the moment but rather
22 because it's a stylization of patent law. And that's how
23 I want to use it.

24 So I'm not using chips or the Chip Protection Act
25 as an object of interest but rather as a model. The Chip

1 Protection Act allows reverse engineering of chips in
2 this mechanized way that was developed in the '70s and
3 '80s. So it doesn't restrict the reverse engineering.

4 Indeed, patent law would not require reverse
5 engineering because there's a disclosure requirement, but
6 the Semiconductor Chip Protection Act provided an
7 explicit forward engineering requirement in order to
8 avoid infringement.

9 So what's interesting about that is it prevented
10 entry with a cloned chip, an identical chip, but allowed
11 entry with an improved chip.

12 And what that suggests is something that's also
13 present in patent law. It's patent-like in the sense
14 that it prevents entry to the market with the identical
15 thing that would be, if it were patented, covered by the
16 patent, but it permits entry with a substitute or rival
17 product that manages to escape infringement by escaping
18 some scoped out set of similar products, in this case
19 chips, as set forth here explicitly as a forward
20 engineering requirement but in patent law set out usually
21 in case law as a breadth requirement. And so the
22 question is how does that operate?

23 Another interesting thing about the Chip Act is
24 that there's no explicit distinction between what it
25 takes to escape infringement and what it takes to get

1 your own protection. The standard, if this were a patent
2 act rather than a sui generis chip act, the standard for
3 patentability and the standard for breadth would be
4 coincident. That's not true typically in patented
5 subject matter.

6 So I want to use this as a model now to come to
7 the question of how those two features operate more
8 generally in the context of cumulative innovation,
9 thinking of this example, even though it's not a patent
10 example.

11 So, as you know, economists have a lamentable
12 tendency to write models. This is as model-like as it
13 will get but it's a stylization of the context which I
14 think is useful. If you look at the diagram at the
15 bottom of the overhead what I've drawn is a quality
16 ladder and the way to think about that is the sequence of
17 chips.

18 So Q1 is the quality of some initial chip. Q2 is
19 the quality of some subsequent chip and so on. And each
20 chip proceeds by a leap of quality that I call delta
21 there at the bottom of the diagram.

22 And the thing to notice about this context which
23 makes the cumulative context for intellectual property
24 protection fundamentally different than other contexts is
25 that there is an extremely evident reason that there's a

1 discrepancy between how much of the value created can be
2 appropriated by the inventor. There's a discrepancy
3 between what he can appropriate and what he creates.

4 So the benefit of each improvement I've written
5 there is the size of his incremental improvement, say
6 delta, divided by r , and what that represents is the fact
7 that if you make some incremental improvement in
8 technology the value of that improvement goes on forever.
9 Why is that? It's because it creates a foundation for
10 all future progress.

11 So even if you get wiped out of the market in the
12 next period by an improved chip, the value you created
13 remains there because it's a foundation for your
14 improving successor and it's a foundation for every
15 successor after that.

16 However, you as the improver may well get wiped
17 out of the market after the next incremental innovation,
18 which means that you may collect profit on your
19 improvement for two years whereas in fact you have
20 created a value which can go on forever. Enormous
21 discrepancy between the value created, the social value
22 created, and the amount of that value you can
23 appropriate. How does intellectual property law mediate
24 that problem? That's what I want to address.

25 There are two tools, as I said at the outset, two

1 important tools that bear on this problem. One is
2 breadth and the other is the standard for patentability.
3 So what I've drawn now on the bottom diagram I've shown a
4 consolidation.

5 The implicit idea in my previous diagram was that
6 each sequential innovator comes along with his q_1 plus
7 delta, his improvement, and then becomes a competitor to
8 the previous patent holder.

9 Suppose, however, that the subsequent
10 improvement, improved product, infringes the prior
11 patent? That is a question of patent breadth, whether or
12 not the subsequent inventor infringes the prior inventor.

13 And if he does, then that gives a legal
14 foundation for consolidating the patent rights in the
15 ownership of one firm, under the market control of one
16 firm, because to resolve the blocking patents they have
17 to license.

18 So what does that do? It increases -- instead of
19 having competition between the sequential innovators what
20 it does is give an opportunity, a legal opportunity under
21 antitrust law to consolidate the market control of those
22 two innovations and collect twice as much profit -- I've
23 written here 2δ -- twice as much profit in every
24 period for the duration of those intellectual properties.

25 So that's what breadth does, and in particular

1 leading breadth, giving some claim to each innovator on
2 what comes after. And I call it leading breadth because
3 it's giving a claim to things he hasn't invented. It's
4 leading, the leading edge of what he's invented, you're
5 still giving a claim those inventors may infringe.

6 Now that, of course, is a bit tricky in patent
7 law. But if you don't have that, then the ability to
8 protect each inventor is seriously restrained.

9 Okay. So that's what I view as the main tool for
10 mediating this conflict between sequential innovators is
11 the fact that subsequent innovators may infringe in the
12 sense of blocking patents.

13 How do we think in this context about the bar to
14 patentability or the standard for patentability. How do
15 we think about the minimal patentable step? Well, in
16 this context if you think about the incentive for an
17 improver to actually make the improvement, if it's a
18 third-party firm not the original patentee, not the
19 previous patent holder, then clearly he's going to be
20 reluctant or at least think hard before making an
21 improvement that's not patentable, that doesn't meet the
22 standard for patentability.

23 Why? Because after he makes it if in some way
24 it's revealed -- and of course, this all depends on
25 whether it can be held as a trade secret and so on -- it

1 can be appropriated, for example, by the previous patent
2 holder. So the standard for patentability will operate
3 in this environment to constrain what kinds of
4 improvements the improver is willing to make.

5 I view that as a secondary issue to the question
6 of protecting the sequence of innovators by creating
7 enough patent breadth, but it's not irrelevant because
8 the standard for patentability can give an incentive for
9 innovators to be more ambitious than they otherwise would
10 be instead of just trying to find a market niche by
11 finding some patentable invention.

12 So let me come now to the question of these two
13 very controversial aspects of intellectual property which
14 occupy so much of our attention both as economists and
15 lawyers in this era, that is, patent breadth and
16 standards for patentability, bars to patentability.

17 And I want to ask the question, if we get it
18 wrong, what is the downside risk? And by asking that
19 question what I'm trying to get to is the question of
20 what should we really be worried about here.

21 So we are worried about both things. We have
22 judicial decisions that change notions of breadth all the
23 time. We have Patent Office grants that change notions
24 of breadth all the time.

25 And indeed both of those things also bear on

1 questions of patentability. And we argue about all of
2 them. Which are the important ones? The downside risk
3 of getting the leading breadth wrong -- so what would I
4 mean by that?

5 How much of scope for improvement is staked out
6 as an infringement to the prior patent? That's what I
7 mean by leading breadth. If we get it too narrow, that
8 is, we haven't scoped out enough territory of improved
9 products that infringe the prior patent, if we get it too
10 narrow, then we suffer the danger that the competition
11 will stifle innovation entirely.

12 Every innovator in this sequence will fear that
13 even though he enters the market and can have maybe two
14 years of market incumbency he too will be supplanted
15 because his breadth also will be too narrow to stake out
16 a longer period of time in the market or more territory
17 or more ability to create profit in the market.

18 The problem with getting a leading breadth that's
19 too broad is that you could be enabling more market power
20 consolidation than is necessary to create the sequence of
21 innovations and hence compounding market power beyond
22 that which is necessary. That's an old story. It's a
23 very old story about the basic trade-offs in patent law.

24 Let's come to what is the downside risk of
25 getting the patentability standard wrong. Well, there,

1 you see, I think that the downside risk is less severe.
2 So let me come to an example that Professor John Barton
3 at Stanford often gives when talking about these issues
4 because it's a very good example for illustrating why I
5 think that we don't have to worry very much about the
6 patentability standard but we have to worry a lot about
7 breadth.

8 Professor Barton often is at academic conferences
9 as an I, and at academic conferences we often have coffee
10 and cake which the FTC can't afford. So everybody at the
11 conference has a paper cup.

12 And so John Barton holds a paper cup, and he
13 points to the bottom. He says, look at this; patent
14 pending. It's a paper cup. And then he picks up another
15 paper cup at the conference and he holds it up and he
16 looks at the bottom and it says patent pending. Isn't
17 that interesting. It's a different paper cup.

18 And he uses this to illustrate the idea that
19 standards for patentability may have become so minimal
20 that both of these paper cups could be patented.

21 And we see, of course, the same arguments with
22 respect to one click or two click or business method
23 patents. People argue that trivial things are being
24 patented. And the question is how dangerous is that?

25 And I look at those paper cups and I say, okay,

1 so these two paper cups will have patents. So what? The
2 real question is do those paper cups infringe each other?
3 If those two paper cups both have patents, they both meet
4 the bar for patentability, the standard for patentability
5 but neither infringes the other, then there is almost no
6 harm to competition.

7 So it's my view that as between the controversies
8 regarding breadth and the controversies regarding the
9 standards for patentability it seems to me that the one
10 we really need to get right is the standard for breadth
11 more than the standard for patentability.

12 So following that example let me come back to my
13 comments about what the downside risk for getting the
14 standard for patentability wrong, assuming that we have
15 gotten the standard of breadth right.

16 If we have the standard too high it could stifle
17 follow-ons because third party inventors won't want to
18 enter the market because their innovations might be
19 appropriated in that they won't get patent coverage.

20 However, there's a solution to that. Prior
21 patent holders in the same line of research don't suffer
22 that problem. Because they have patents on the prior
23 innovation, they're still covered, so that downside risk
24 is mitigated by an incentive of prior patent holders to
25 do their own improvements.

1 What if we get the patentability standard too
2 low? The problem with that, and this is the one that's
3 usually raised in regard to business method patents or
4 indeed, Professor Barton's paper cups, is it might result
5 in unnecessary patents.

6 The solution to that is it doesn't matter as long
7 as the patents are narrow, so that despite the
8 proliferation of patents in the market nevertheless the
9 market admits competition.

10 It's the breadth that admits competition not the
11 standards for patentability. So my conclusion is it
12 might be more important to get the leading breadth right
13 than to get the standards of patentability right.

14 And in this regard as sort of a preview of things
15 that will come later in these hearings I invite you to
16 compare for a moment or think for a moment about the
17 comparison of copyright and patent.

18 The standard for protection in copyright is
19 extremely low, at least for traditional subject matters
20 like pictures and books. We have never worried about
21 that.

22 Why is it we have never worried about the fact
23 that the standard for protection in copyright is so low?
24 I believe the reason we have never worried about that is
25 precisely because the protection is so narrow.

1 Everything is copyrighted, but everything is
2 noninfringing, so despite the fact that everything is
3 protected there's a lot of competition in the market.
4 Thank you.

5 MR. COHEN: Thank you very much, Suzanne. I think
6 what we would like to do now is to turn to some of the
7 elements of the patent standards and go through them one
8 by one.

9 And where I thought we could start would be with
10 what Suzanne has termed the patentable step, the
11 nonobviousness standard. We'll get to the leading
12 breadth discussion a little bit later as we go through
13 this.

14 With regard to nonobviousness we have heard
15 through the hearings and even this morning some talk
16 about one possibility might be if you're trying to design
17 things optimally you might want something that will
18 approximate a "but for" rule. Give a patent if and only
19 if it would be needed to call forth an invention. Often,
20 this may be a higher standard than what we're used to
21 dealing with.

22 Others have suggested that a lower standard might
23 suffice. Perhaps a "substantial novelty" standard would
24 work if our goal is primarily one of efficient
25 development of a prospect.

1 I think I'd like to throw out the various
2 possibilities and get your reactions. Let's start with a
3 "but for" approach. Would a "but for" rule, when
4 designed to issue patents if and only if they're needed,
5 provide a measuring stick that would accurately reflect
6 economic goals? Scott.

7 PROF. KIEFF: I think that's actually an amazingly
8 difficult question. And this gets back to kind of the
9 disagreement Salem and I had about how to read Graham and
10 103.

11 And the disagreement kind of goes with a history.
12 Buried, actually, in a jury instruction of all places in
13 a very, very old case is the notion that we want to look
14 at what the ordinary mechanic in the field would think to
15 do. And then during the bulk of the 1900s all the way
16 up, in fact, even past the 1952 Patent Act, and I agree
17 with you, past Graham, a lot of people had the notion
18 that we ought to look for things like flash of genius or
19 synergism.

20 But I do think it's interesting, and you're
21 right, absolutely you're right, the Supreme Court in
22 Graham expressly discusses the no-change language.

23 But the sentence continues with a cite to
24 Hotchkiss. And the story has been told by the author of
25 that opinion, Justice Clark and his law clerk at the

1 time, Charlie Reed, and it's catalogued very richly in a
2 couple of places.

3 So there's a book called, Nonobviousness, the
4 Ultimate Condition of Patentability by Witherspoon and a
5 book called, Principles of Patent Law, by a group of
6 people including me, that talks about this story, and
7 then actually a law review article by George Sirilla.

8 So there's a lot of sources for the history. And
9 the view seems to be that the no-change language was
10 consensus gained, but the cite to Hotchkiss was key. And
11 the cite to Hotchkiss was key because the rule was, no,
12 we want to go with an objective standard. And the
13 standards flash of genius, synergism, things like that,
14 were viewed as too subjective.

15 So the no-change is harkening back to Hotchkiss
16 not harkening back to A&P or Cuno or the other subjective
17 standard cases which are absolutely right. The no-change
18 language is in there. It turns out to have this
19 interesting kind of story associated with it.

20 But the sentence doesn't end with no-change. It
21 goes on; it cites to Hotchkiss. Hotchkiss becomes the
22 key. And that's where the ordinary mechanic -- today we
23 call this PHOSITA, person having ordinary skill in the
24 art, P H O S I T A.

25 So we asked Madam PHOSITA or Mr. PHOSITA what

1 would be obvious to you? And maybe we could try to do
2 some kind of "but for" analysis. Maybe an answer to that
3 question is to say the following -- and I think this gets
4 at some of the underlying points you were raising -- what
5 standards do we want for patentability?

6 One of them that we don't want probably, we don't
7 want patents to issue on stuff that other folks are
8 otherwise doing because we like protecting investment-
9 backed expectations. So we could have a standard that
10 says, listen, if someone's already doing it, don't patent
11 it.

12 Now, we can tell the story that the novelty
13 requirement exists to do just that, and we could argue
14 about whether we should tweak the novelty requirement to
15 capture things that, as a matter of fact, folks have
16 already been doing but somehow we weren't catching them
17 under 102.

18 And I think if you look at the history of the
19 case law on 102 you'll find that we have done that. So,
20 for example, under 102(a) there was this view that there
21 was a publicity requirement.

22 A lot of people looked at that and they said,
23 well, that doesn't quite make sense because people could
24 be investing in a meaningful way without making it
25 public. We might want to capture that as an investment-

1 backed expectation. We might want to protect it and, lo
2 and behold, the court has evolved, in fact, the Federal
3 Circuit has evolved, a view of 102(g) to say as long as
4 people have not abandoned, suppressed or concealed it, it
5 counts as prior art.

6 So we're doing a lot of work, in fact, in making
7 sure that we prevent patents from issuing on stuff that
8 folks are otherwise not doing. If they are otherwise
9 doing it, we don't let a patent on it.

10 And if they're otherwise doing it and keeping it
11 secret, well, then we do let a patent on it because we
12 have some feelings about trade secrecy and especially
13 some feelings about whether people could go for trade
14 secrecy plus patents. We don't like it when they do that
15 because they get two bites of the apple. So that's what
16 anticipation could do for us.

17 So we could view nonobviousness as the effort to
18 make sure patents don't issue on what folks are just
19 about to do. So we could have this view that says, if
20 folks are doing it, we don't want to patent it. If folks
21 are just about to do it, if they have invested in
22 investing, if they are starting to ramp up, that could be
23 some investment-backed expectation we want to protect,
24 and we could try to conceptualize the nonobviousness
25 requirement as a proxy.

1 Like all proxies it will be sloppy, but then the
2 question is going to be what objective criteria -- and we
3 would want to decrease social cost on this, so we would
4 want to have a legal standard that could be testable with
5 objective, factual criteria.

6 And I agree with, I guess, Mr. Kunin, who had
7 made the point that we need to be careful about what we
8 call legal and what we call factual because of deference
9 issues.

10 But presumably and, in fact, the Federal Circuit
11 Lee case which you cited, this is the most recent. I
12 think it's February or January of this year, recent Lee
13 case is a fact-type case and it's a case that says,
14 listen, when we're doing our obviousness analysis we need
15 to hinge it on the facts.

16 And the factual analysis needs to go like this:
17 we look in the prior art. We generate a checklist. The
18 checklist is everything in the claim. Everything in the
19 claim plus enough teaching to enable someone to actually
20 make the claim.

21 If we can find all of that in any single
22 reference, objectively, we actually find it there as a
23 matter of fact, that's anticipation and we're done.

24 If we can find it all there, but instead of
25 finding it in a single reference we find that checklist

1 spread among two columns, two or more, two, three, four
2 references, and, as a matter of fact, as in the Lee case,
3 we've got some objective teaching, suggestion, or
4 motivation to combine those references, then we've got
5 obviousness, then we've got no patent.

6 But that is a view of obviousness that is
7 relatively crisp and objective and relatively easy to
8 apply.

9 Now, I completely agree that it doesn't have the
10 kind of valuative stuff that you suggested. And I think
11 it would be great if we could figure out a way to have
12 someone do that evaluation. And I think this gets at
13 Arti's comment about whether maybe what we ought to do is
14 have an expert economist in the Patent Office decide is
15 it, quote, worth it, to issue this patent.

16 But those are going to be very -- and I guess
17 they use your analysis, I think, because they struck me
18 as a very good analysis, but then the question is can
19 someone sitting in Arti's type of office applying
20 Suzanne's type of analysis, bolstered by Salem's type of
21 kind of valuative approach, do it cheaply?

22 Or do we want to have a crisp -- you add up the
23 facts; they're there or they're not. It's obvious or
24 it's not. You've got the teaching of every element.
25 You've got a suggestion motivation to combine. It's

1 obvious.

2 If you don't have all that stuff in the text of
3 the documents you're looking at, the journal article in
4 Cell or the journal article in the one-click patent case,
5 it's going to be going to some business school class and
6 looking at the notes. We have a lot of case law about
7 what facts you get to look at for prior art. But that's
8 where you look. And then we need to make this
9 comparison. But that's I think the comparison we'd be
10 making.

11 MR. COHEN: Let's make a comparison with some
12 other people's comments. Mark.

13 PROF. JANIS: A small point here. We're talking
14 about -- beginning to talk about these patentability
15 doctrine seriatim but we need to remember that they do
16 interact. So it's convenient, of course, we have to talk
17 about them seriatim but I think they interact in very
18 important ways.

19 So, for example, I might be very happy with an
20 easy eligibility standard if I know that it's backed up
21 by a rigorous standard on enablement, scope, breadth or a
22 rigorous obviousness standard.

23 Likewise, I might have Jay Kesan's problem if I'm
24 in the software problem and I have an easy eligibility
25 standard and perhaps an easy enablement standard. Those

1 two together may create a problem where one or the other
2 individually might not, but those two together surely do.

3 And another related point you hear people talking
4 in the biotech area about an easy dual standard for
5 obviousness in counterpoise with a heightened written
6 description standard as a way to justify those two. So
7 just a small point about remembering that these doctrines
8 interact with one another.

9 MR. COHEN: Arti.

10 PROF. RAI: Just to follow up, I think that
11 Suzanne is exactly right, that it probably doesn't matter
12 as much what the standard for nonobviousness is as long
13 as we get the scope right, but the difficulty is that if
14 you have a very low standard for nonobviousness the way
15 the patent law is at least currently set up that means
16 you're tied to a narrow scope, which may or may not be
17 good depending upon your analysis.

18 And so if you want to decouple nonobviousness and
19 scope you have to do so by using explicitly economic
20 analysis that is different from the doctrinal analysis
21 that the court would apply.

22 So, I mean, I think that raises the larger
23 question of, it seems to me, that the patents' doctrines
24 are meant to get, at the end of the day, the only
25 questions they're intended to get at are questions of

1 innovation policy.

2 So then, and Scott mentioned that it may be too
3 difficult to have an economist sort of analyzing each
4 patent to determine what the optimal scope and so forth
5 would be, but I do think we could -- and this is back to
6 the point I made in the earlier session -- I do think
7 that one of the things that a PTO with substantive rule-
8 making authority could do is come up with guidelines that
9 might apply across a variety of cases that explicitly
10 incorporate economic policy considerations and therefore
11 allow us, if we want, to decouple nonobviousness from
12 scope, if that is the economically sound thing to do.

13 And that doesn't have to be done on a case by
14 case basis. I think it can be done on perhaps an
15 industry by industry basis, which leads to the question
16 of -- I don't think the patent laws should be technology
17 specific in the sense that it should always be grounded
18 in the facts to some extent, but it may be that there are
19 different economic considerations at play in different
20 industries that would affect how you would want to think
21 about scope.

22 MR. COHEN: Steve.

23 MR. KUNIN: I'd like to take a little bit of a
24 different approach. I think it's important for us to
25 look at a couple of different elements. The first

1 element is the role of the Patent and Trademark Office as
2 the gatekeeper, and basically the way the law is
3 currently set up the burden of proof is on the examiner.
4 So you're entitled to a patent unless....

5 And essentially the examiner has to establish a
6 prima facie case of unpatentability on any of the
7 patentability criteria. And of course applicants have an
8 opportunity to submit rebuttal arguments, evidence,
9 affidavits, but of course at the end of the day still the
10 Office has the burden of proof.

11 It's interesting then if you then take this to
12 the next level, which is now once the Office has done its
13 gatekeeper role the patent has a statutory presumption of
14 validity. The Office or the government has been presumed
15 to have performed its function correctly, and
16 consequently the current standard is that any accused
17 infringer in trying to show invalidity has to do so by a
18 clear and convincing evidence standard, not a
19 preponderance of evidence standard which is the standard
20 within the Patent and Trademark Office, even for re-
21 examination or reissue, but this clear and convincing
22 evidence standard.

23 And, of course, I think this makes it difficult
24 from the standpoint of making that determination of
25 whether the standard in the final analysis is really

1 different in terms of the proceedings within the Office
2 versus proceedings in litigation.

3 And, of course, I think sort of the middle ground
4 here is the aspect of the fact that some ways that people
5 have historically approached it, and I'll go back to some
6 of the things that were discussed in early President
7 commission lists of recommendations, led to, for example,
8 in the 1980-81 time frame, re-examination.

9 And re-examination was intended to be on patents
10 and printed publications, substantial new question of
11 patentability, fairly low standard, and that this was
12 supposed to be a patent correction mechanism.

13 And, of course, under the American Inventor's
14 Protection Act, an inter partes re-examination law was
15 passed. Of course, I think there were enough show
16 stoppers in there that, to date -- while that went into
17 effect roughly November 29 of 1999 for patents that were
18 filed thereafter and then ultimately grant those patents,
19 and it takes a while -- we've only had three. So that
20 shows you that maybe that wasn't the perfect solution and
21 maybe that needs to be fixed somehow.

22 MR. COHEN: We'll try to focus on that this
23 afternoon.

24 MR. KUNIN: But in essence I think the point I
25 want to make in conclusion is that when you look at these

1 standards, I think you need to look at them all along the
2 process, not merely in front of the patent examiner but
3 obviously in front of a district court judge or the
4 Federal Circuit judge and whether those standards
5 actually are different kinds of standards.

6 And of course one critical aspect, at some point
7 we really need to talk about, is claim interpretation
8 because to a large degree how claims are interpreted for
9 examination, how claims are interpreted for enforcement,
10 you find also, I think, that there's potentially a
11 different approach that's taken.

12 And, of course, you can't make judgments on
13 anticipation and nonobviousness without knowing what the
14 claim covers. And I think to a large degree once again
15 under Markman that's a question of law for the judge to
16 determine what the claim really means, yet a lot of these
17 determinations, as Scott was mentioning, begin with fact
18 finding.

19 You have got to do fact finding for anticipation.
20 You've got to do fact finding even for nonobviousness in
21 terms of what is in the prior art before you ever get to
22 the motivation issue. And of course you have this aspect
23 of this whole realm of fact finding relative to the
24 evidence. And on the other hand what the claim really
25 covers and ultimate conclusions on nonobviousness are

1 matters of law.

2 MR. COHEN: On this side of the table. Jay.

3 PROF. KESAN: Yeah. Just a couple of points to
4 follow up on some of the comments that were mentioned. I
5 think the obviousness or nonobviousness standard, if you
6 will, is really at the heart of the patent system.

7 And it's our way of defining what it means to
8 have an invention. And you essentially create sort of a
9 zone of patent-free world around the prior art, and
10 obvious variations of the prior art are deemed not to be
11 worthy of the extravagance of a patent.

12 But the key link there though is now that we
13 understand the standard as articulated in Graham and in
14 Section 103, the key thing is to what appears to be a
15 value judgment to every one of us in one technology
16 versus another, reemphasizes the importance of going back
17 to this person who is skilled in that field and in that
18 art. And it's only with respect to that person that the
19 standard makes any sense at all.

20 So while we're talking about sort of this view
21 from 10,000 feet the real action in the obviousness
22 standard is in knowing what the prior art is. That's the
23 first thing, knowing what the prior art is. And
24 secondly, what is a person in that field, what do they
25 think of that prior art.

1 And I think that's where the concerns on
2 obviousness come in, and the standard itself is pretty
3 good, but whether all the relevant prior art is available
4 to the PTO, that's the first question.

5 The second question is did they really have an
6 accurate understanding of what a person who is skilled in
7 the subfield, not necessarily just in the broad field, is
8 important.

9 The second thing that I wanted to mention, and
10 this goes back to Professor Scotchmer's talk, and that is
11 to me the breadth problem emphasizes the importance of
12 the disclosure requirements. So, in other words, you can
13 claim whatever you want and your claims can be --

14 MR. COHEN: Let's be brief here. We're going to
15 get to disclosure separately. So with that caution, go
16 ahead.

17 PROF. KESAN: To the extent that your claims are
18 overbroad, if you police the written description,
19 enablement and best mode requirements well you can knock
20 off the overbroad claims.

21 Where a patentee is trying to anticipate what is
22 coming down the road and tries to act as though all those
23 developments were contemplated by him all along, which is
24 where he's trying to overreach, that's where policing the
25 disclosure requirements as part of the patentability

1 standard becomes important.

2 One other thing I wanted to mention with respect
3 to this 2 delta problem is I'd like to hear your response
4 on how that jibes with the product life cycle hypothesis
5 in the sense that every patentee is aware that they're
6 not going to get much profits early, then later on
7 they're probably going to get 1.5 delta, the
8 distribution, and then they're going to end up with about
9 half a delta as obsolescence and preemptive innovation
10 kicks in.

11 So in other words, between two people the
12 distribution is really important. And I know that at
13 some point I may get a big chunk but then as I go down
14 the road I'm going to get a smaller piece because this
15 other guy comes along and puts a spout to my bucket with
16 a handle or puts a lid to my bucket.

17 MR. COHEN: Salem.

18 MR. KATSH: I think it's important to recognize
19 that we're probably focusing on the gray area of patents,
20 those that are neither clearly meriting a patent and
21 those that are clearly not meriting.

22 And from a lot of work with juries and jury
23 consultants it's become -- I've been taught and I find it
24 reflected in the experience -- that when you come to
25 close questions people don't or can't follow what some

1 people would say are objective criteria, the jury
2 instructions.

3 And it may be that one kind of study that ought
4 to be done in this field is a social studies type study
5 of the process by which decisions are made by examiners.

6 Now, some examiner felt that one click was
7 patentable. A district court judge, another reasonable
8 person I assume, felt it was worthy of an injunction.
9 The Federal Circuit -- reasonable people -- they
10 disagreed.

11 Now, when you have that kind of result, you can't
12 say there's an objective standard. Something else is
13 going on, and it's like asking what is insubstantial on
14 the question of Doctrine of Equivalents.

15 If you read the hearing of the Warner Jenkinson
16 case in the Supreme Court, it's very interesting. You
17 had one justice after another saying well, what do you
18 mean by insubstantial? And the law is full of these
19 issues.

20 Well, what is the reasonable person in tort
21 cases? What is foreseeable? I don't mean by value an
22 economic value. I mean the value that the individual
23 says to himself, is this worthy of a patent? Because
24 that's what the social scientists, psychologists are
25 telling us is the way a person reaches a decision.

1 And so if we don't recognize that and attempt to
2 provide more guidance, then I think we're not going to be
3 able to arrive at a more predictable system. MS.
4 GREENE: You mentioned that many standards that pervade
5 all areas of law have this tough balancing test where
6 you really have decision calls to make, is what you're
7 talking about.

8 To what extent, if at all, is the technical
9 nature of patent law something that is going to enhance
10 or undermine the ability to engage in the type of refined
11 criteria that you think are needed?

12 MR. KATSH: I don't think that unless you put it
13 into a computer program, put the art into the computer
14 program and program the computer with some set of
15 instructions and you want to live with that, fine.

16 But as long as you're going to have people doing
17 it, I just don't think it can be as simplistic a notion
18 of you've got motivation, you've got the elements, you've
19 got novelty, the patent issues.

20 Because an examiner and a judge and a jury and
21 society are going to reach their own conclusions. And at
22 some point the ultimate question is is this worthy of a
23 patent? That's going to be -- and I don't know.

24 I've never been an examiner but I've certainly
25 argued jury instructions which are supposed to be

1 quantitative and objective, and you end up with decisions
2 that are influenced by the individual.

3 How many examiners, if you took a gray area
4 patent and did a test and gave them the same facts, and
5 it's in the gray area, would come up -- and these people
6 are in the art -- would come up with the same result?
7 That would be an interesting exercise.

8 MR. COHEN: Let's try Roger and then Steve on this
9 and then move on.

10 MR. PARKHURST: I was just going to say I think
11 it's interesting. Salem has just suggested maybe a study
12 of the sort of philosophical or social question of does a
13 certain subject matter rise to the level of -- should
14 society grant a patent for this.

15 I was going to ask Arti just exactly what sort of
16 economic criteria she had in mind might fit into the
17 evaluation of patentability. But it seems to me that the
18 scheme that we have now by statute says let's try to make
19 this decision based on the standard that is set forth in
20 Section 103, now Section 103(a) and let the market sort
21 out those other things after the fact.

22 Harkening back to Suzanne's talk, I think that
23 the market does some of these things when we have a broad
24 patent and improvement patent. You do have the blocking
25 patents. The market says we're not going to accept the

1 subject matter of the broader, basic patent without the
2 improvement. So somehow the owners of those patents have
3 to work it out to market any product.

4 Another solution of that problem which I think
5 fits into one of the categories you had on your board was
6 I've seen the market solve the problem for a patent owner
7 by saying, look, I'm going to have a second source of
8 supplier. I'm not buying anything from you.

9 And so I know I was involved in a rather major
10 event for one of my clients where we were confronted with
11 an entire portfolio of patents, and the solution
12 ultimately was that the customers of the patent owner
13 were demanding that they were going to have a second
14 source of supply.

15 So the two parties who were the eligible
16 suppliers really had to work it out to achieve that, or
17 they were both going to lose.

18 It seems to me in today's world, in today's
19 statute, a decision was made by Congress long ago that we
20 weren't going to go into this kind of detail to make the
21 evaluation, but we were going to try to get something
22 that we could deal with objectively, recognizing that the
23 last step is subjective, and then let the market and the
24 real world sort it out from there.

25 MR. COHEN: Steve.

1 MR. KUNIN: I'll try to be brief here, but I felt
2 that maybe we ought to just briefly mention, if not go
3 into any depth, the fact that as Roger was talking about
4 what the literal words of the statutes say and others
5 have talked about the Graham v. John Deere analysis but
6 of course, in the Graham v. John Deere analysis in
7 addition to the principal case there is a consideration
8 of, as the court said, the secondary considerations,
9 which now have been known as the objective indicia of
10 nonobviousness, things such as failures of others, long-
11 felt need that has gone unsolved, unexpected results,
12 commercial success, and so forth and so on.

13 And of course, maybe what happens is the detail,
14 if you will, becomes more complex as you get beyond just,
15 I would call, a superficial look at the prior art and
16 throw the facts in the computer and see whether the
17 computer says, well, everything is there and there's some
18 indication of motivation, it would have been obvious
19 because that's only the prima facie case.

20 Then when you start piling on these other
21 secondary considerations in making the ultimate
22 determination I think that you find that it becomes
23 something which is not very easy to deal with and does
24 involve a lot of professional expertise and judgment.

25 MR. COHEN: Let me build on that. I'd like to

1 shift for a few minutes -- we only have a few minutes
2 before our lunch break -- into some of the legal issues
3 surrounding nonobviousness.

4 And we can start with the objective indicators
5 because that's where you have left us. I'm wondering if
6 the panelists have any thoughts as to whether there are
7 particular settings where reliance on some of these
8 factors perhaps ought to be tempered or where our
9 knowledge of how competition works might suggest that
10 there's not an adequate nexus between the various factors
11 and the nonobviousness of the invention.

12 For example, with the commercial success factor,
13 if we're dealing with settings where there are potential
14 lock-ins to existing technologies and subsequent patents
15 come along and are commercially successful, should we
16 look at this in the same way as we would look at it if
17 the patentee had no lock-in already? Does this work its
18 way into the law? Any thoughts on this?

19 MR. PARKHURST: Well, I think it's already in the
20 law. I think the requirement for nexus is already there.
21 I mean, you've got to have a nexus with what's claimed,
22 and then we look at why was there success. And if
23 there's not a nexus between success and what was claimed,
24 then the law says, in theory, you're not entitled to the
25 extra credit, if you will, for so-called commercial

1 success.

2 MR. COHEN: I'm trying to go a little bit beyond
3 the theory into the actual practice. Is it working?

4 MR. PARKHURST: Well, I think it's on a case-by-
5 case basis. And it always will be because it's going to
6 be a matter of how well parties and their counsel and
7 experts develop the evidence and how, finally, the
8 evidence can demonstrate whether or not the nexus exists
9 or does not exist.

10 MR. COHEN: Let's try our other litigator. Salem.

11 MR. KATSH: I was going to say that from a
12 litigator's point of view, the secondary considerations
13 are extremely attractive. There's no better jury
14 argument than would have, could have, should have.

15 On the other hand, there is a danger, it seems to
16 me, that those standards, and I think this point has been
17 made in other sessions of these hearings, those standards
18 are attractive, whether to an examiner or certainly to
19 judges and juries, because they want to answer the
20 question should a patent be issued here, they want to
21 answer it well. Those are very attractive nuisances, if
22 you will, that will lead them to rely on those elements
23 perhaps more than would be warranted.

24 So I think it's a double -- I mean, there's
25 certainly obvious common sense in saying that people have

1 been trying for 200 years to invent something and
2 somebody comes along and all the pieces are out there but
3 nobody's done it, you're never going to convince a jury
4 that that was obvious. But, at the same time, there has
5 to be a control over the extent to which those are taken
6 into account.

7 MR. COHEN: I see Kenneth has his sign out.

8 MR. FRANKEL: It seems to me that Salem is
9 approaching the right question as to whether somebody
10 really is entitled to the patent and that is what is the
11 gut feeling that you end up with at the end of a case.

12 I don't think that there's the situation that
13 Salem was talking about where you're clearly entitled,
14 you're clearly not entitled to a patent. I think that
15 that's a very rare situation.

16 MR. KATSH: Those don't go to court.

17 MR. FRANKEL: They may not go to court, but
18 skillful litigators are going to point to various
19 different factors and make everything into the gray area.

20 I think that when the juries are looking to make
21 that ultimate gut decision they need to have at least
22 some criteria to look to. And I think that these
23 objective criteria -- the nonobjective criteria -- at
24 least give some guideposts, so that the juries can at
25 least link themselves to these areas and then make up

1 this decision.

2 If you don't have these criteria, and you're just
3 leaving it to the gut, I think that we would have great
4 uncertainty. You'd have no idea where you're going to be
5 making your investments for the future.

6 And maybe I read something into your question,
7 but I don't think that these criteria should be different
8 for different industries. I think that they can be
9 tempered for general guideposts and that for any specific
10 case, as Roger was saying, you can make your arguments
11 that some factors are more important than others. So I
12 think it's absolutely critical to have these general
13 factors in there.

14 MR. COHEN: Just a couple other questions of a
15 legal nature, stepping away from the objective indicators
16 back into the more basic test. We heard a little bit
17 this morning about a combination of references and need
18 for motivation.

19 I'm wondering if anyone has reactions to the
20 extent to which practice has kept up with practical
21 developments. The ability to run computer searches that
22 may cross-reference different fields and make it easier
23 to draw on analogous -- non-analogous sources. How is
24 this factored into the combination-of-references
25 thinking? Anyone have a reaction on that? I see Jay's

1 sign up. I don't know if it's for this or for a prior.

2 PROF. KESAN: My only reaction to that is that
3 this is a common problem most commonly in the area of
4 information technology and computer software.

5 And the reason for that is primarily because the
6 nonpatented prior art, which is very significant in that
7 field because software was not thought to be protected by
8 patents for a long time, has made it hard, and most
9 programmers know that a lot of the relevant prior art is
10 found actually in handbooks.

11 Every company puts out its handbooks on various
12 kinds of software that they used to use. And that's the
13 sort of information that I think is problematic. And
14 it's widely considered to be a problem for the Patent
15 Office because they simply don't -- the searching costs
16 are first of all too high, and the amount of time that
17 you have assigned -- 8 to 18 hours for a patent
18 application throughout the whole process according to
19 empirical study -- just doesn't allow for that kind of
20 prior art searching.

21 MR. COHEN: We've reached our 12:30 breaking
22 point. I think we will take our lunch break now. We
23 unsurprisingly haven't gone through all the elements,
24 substantive elements this morning. I think we'll pick up
25 with that when we start the afternoon and then move on

1 into the procedures.

2 So I felt though that the morning might run a
3 little long and it did. And we'll pick up where we're
4 leaving off at 2 o'clock this afternoon. We'll try to
5 start promptly so we can keep moving forward. Thank you.

6 **(Whereupon, a lunch recess was**
7 **taken.)**

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1 **AFTERNOON SESSION**2 **(2:04 p.m.)**

3 MR. COHEN: I think we can get started. We're
4 going to resume where we left off this morning. We have
5 the same set of panelists joining us but we have a couple
6 of new people joining us from the side of the government.

7 Immediately to my left is Susan DeSanti who is
8 Deputy General Counsel here for Policy Studies at the
9 FTC, and our representative from the Department of
10 Justice this afternoon will be Douglas Rathbun. And
11 we'll welcome both of them to our group.

12 Where we ended up this morning was we discussed
13 the nonobviousness requirement, the patentability step
14 that was identified this morning. I think maybe the next
15 place to go would be to follow in the order that
16 Professor Scotchmer's presentation suggests and take a
17 little bit of a look at the standards that deal with
18 leading breadth, the degree to which an improvement
19 infringes or escapes from coverage of infringement.

20 And what I'd like to do is we have had the topic
21 introduced by Suzanne. I'd like to throw out to the
22 panel the question as to whether you regard current
23 practice as giving optimal results for leading breadth?
24 Is it where it should be? Are we drawing the line at
25 what infringes properly? Any thoughts?

1 MR. PARKHURST: I'll start. I think literal
2 infringement is pretty straightforward. I think as Steve
3 Kunin mentioned this morning claim construction is a
4 large area of question. Particularly, we have seen some
5 Federal Circuit cases that have gotten into the business
6 of permitting reading limitations from specifications
7 into claims de facto. I think that's a poor practice and
8 it's a poor precedent for the district courts.

9 I think if you look at the various aspects of the
10 existing patent law when properly applied they result in
11 claims being the focus, as the court said many times in
12 the Johnson and Johnston decision that Salem mentioned
13 earlier this morning.

14 And when the claims are the focus and the other
15 aspects of the law are properly applied, you have a
16 situation where the claim is either of proper breadth or
17 invalid breadth. And that issue should be minimized, but
18 with some of the things that are going on today I think
19 it is an issue. So I just sort of offer those comments
20 to kick it off.

21 MR. COHEN: Salem.

22 MR. KATSH: I would offer also the observation
23 from what I've been told that something approaching 50
24 percent of Markman decisions have been reversed or
25 modified by the Federal Circuit.

1 And again from the perspective I bring to the
2 practice of my clients wanting as much certainty as
3 possible, the fact that even the literal scope of the
4 claim is subject to so much question, and it's coming
5 back again I guess to the quality that's experienced
6 within the prosecution process and the question of
7 resources.

8 As far as the separation of the claim
9 construction function, there's another case that was just
10 decided, Tate -- I remember the first name is Tate
11 something. And in that case the court did not and had
12 before it a preliminary injunction entered by a district
13 court on a finding of literal infringement. And
14 apparently it was conceded that the defendant was
15 practicing the prior art.

16 But the Federal Circuit did not feel it had
17 before it or that it was the right context for it to
18 reconstrue the claim since that issue apparently was not,
19 strictly speaking, before it.

20 And that was kind of a shocking opinion to me
21 because if you take the Johnson and Johnston case they're
22 saying you can't take matter out of the public domain,
23 and here they're refusing to address a conceded fact that
24 the accused device was in the prior art on the ground
25 that this is the way we do things.

1 This is the way we approach claim construction.
2 You either invalidate the claim, or it's valid and then
3 you infringe -- I guess even if your device is in the
4 prior art.

5 Now, they did say that that would be a rare
6 situation, where you have a valid claim that could cover
7 a device practicing the prior art. But it just struck me
8 as the kind of situation that called for a court to do
9 justice. And, again, it's the kind of decision that
10 brings more uncertainty into the field.

11 MR. COHEN: Arti.

12 PROF. RAI: I think the figure is more like the 30
13 and 40 percent depending on which of the various studies
14 you believe. So maybe that's why 50 percent -- it also
15 depends on what time period you studied. But in any
16 event that's neither here nor there.

17 It seems to me that one of the problems with
18 breadth that one sees in the two areas which I followed,
19 complaints about breadth in biopharmaceuticals, the
20 complaint is written description is being used to make
21 scope too narrow. And then in software, which I know
22 less about, but I know the conventional wisdom seems to
23 be that the scope of claims is too broad.

24 In some ways the response to both of those
25 problems is pretty simple, and that is that the Federal

1 Circuit should understand the technology better than it
2 does because the reason that it's keeping claims so
3 narrow in the biopharm area is because it seems to think
4 that everything in biopharm, particularly in biotech, is
5 incredibly unpredictable, and therefore claims must be
6 narrow.

7 By contrast, I think, as Jay suggested earlier,
8 in software it seems to think you can have incredibly
9 broad claims without any disclosure whatsoever. So it's
10 a sort of a misunderstanding of the technology to some
11 extent.

12 Having said that, at least in the biotech area if
13 we're going to have upstream patents as the Federal
14 Circuit is letting us do or is inclined to let us have,
15 particularly if it keeps the utility standard as low as
16 it has in some of its cases, it seems to me that narrow
17 scope is probably a good idea if we're going to have
18 those patents at all.

19 The problem arises if that narrow scope, those
20 principles of narrow scope, are used all the way down the
21 line even to more downstream patents, because that
22 strikes me as a real problem.

23 And in any event, the Federal Circuit is
24 certainly not doing it because I think it's kind of come
25 up with some sort of sophisticated economic analysis of

1 upstream patenting versus downstream patenting. I think
2 it just misunderstands the technology in the biopharm
3 area. And my understanding is, my sense is that it's
4 misunderstanding the technology in software as well.

5 MR. COHEN: One thing we sometimes hear in this
6 area is that when you move over into the realm of the
7 Doctrine of Equivalents, a greater range is allowed for
8 pioneer patents. Have you found this to be the case and
9 if so is it justified? Does that make sense? Is that
10 what we would want? Mark.

11 PROF. JANIS: Yeah. I had some comments before
12 the question.

13 MR. COHEN: I'm sorry.

14 PROF. JANIS: Let me just comment on a variety of
15 things and maybe I'll end up at the pioneer comment. The
16 Tate Access case, like Salem, I thought that was a
17 jarring case to read. I think though it may boil down to
18 something pretty simple about the burden of proof.

19 I need to read it again to remember correctly,
20 but I think the Federal Circuit was simply saying you
21 can't escape -- you the defendant in an infringement case
22 can't escape your burden of proving invalidity by
23 converting that into a noninfringement defense of
24 practicing the prior art.

25 And if that's the extent of it, then that's a

1 pretty innocuous opinion. But the way it's written is
2 jarring. I really agree with that.

3 I was just going to throw out a variety of issues
4 that I think are important issues that come under the
5 heading of breadth. Some of them we have touched on, and
6 I don't intend to develop these unless you want to, but
7 I'll just throw them out and see what you think.

8 One would be the tendency at the Federal Circuit
9 to attempt to create apparent per se rules relating to
10 equivalents. And of course I'm talking there about the
11 Festo case and the Johnson and Johnston case.

12 And I have questions there about whether you
13 really get more certainty or whether you just get a shift
14 in the area of uncertainty. I really want to imply
15 strongly that it's the latter. So that's one thing I
16 see.

17 Another thing is functional claims. I think the
18 sixth paragraph of Section 112, as it's currently
19 written, and certainly with all the gloss that the
20 Federal Circuit has added to it, is, I'm tempted to say,
21 a disaster but highly problematic, perhaps, I should say.

22 And that's just another area where the costs are
23 much higher than they need to be, particularly when you
24 get down to the level of 112, sixth paragraph,
25 equivalencies. So that would be just another thing.

1 Another area is the use of extrinsic evidence for
2 claim interpretation. I think that that may follow along
3 with the comment about attempting to create per se rules
4 or a more rigid regime for an area that just seems to
5 resist.

6 And then finally, and this goes back to what Arti
7 was saying, we shouldn't forget that an important aspect
8 of this whole issue of breadth derives from acquisition
9 doctrines that control breadth. It's not just all about
10 infringement doctrines and equivalents and whatnot. It's
11 also all about enablement and other 112 doctrines. And I
12 think those tend to get too little attention in these
13 debates.

14 I think the enablement doctrine could be made to
15 do much, much greater work than it has done so far,
16 really fine tuning claim breadth. So we shouldn't forget
17 about that doctrine when we're having this discussion
18 broadly speaking about breadth, broadly speaking.

19 MR. COHEN: Jay.

20 PROF. KESAN: I just wanted to follow up and when
21 I have this -- Mark made a couple of points I was going
22 to make. That's fine. At least in the case of claim
23 interpretation and 112, paragraph six, it's really
24 important to understand once again how that dovetails
25 with the disclosure requirements.

1 So, in other words, if, for example, in a
2 software patent one of the elements of the claim recites
3 something like sorting these vectors or something like
4 that, the term "sorting" has meaning when there is a
5 proper enabling disclosure of that step in the
6 specification.

7 And if the Patent Office does not police that
8 carefully, then when a second patent comes along you
9 basically are not able to say, well, that word sorting
10 referred to this kind of step. I'm talking about
11 something different now. And I'm talking about a
12 different kind of sort.

13 So when you properly interpret the previous
14 patent, you will find that it's actually narrower than if
15 you simply read the words of the claims. After all, the
16 Federal Circuit in Markman told us that you have to
17 interpret the language of the claims, the literal
18 language of the claim itself but also the specification.
19 And that's where the disclosure requirement is so
20 important.

21 The same thing is true in 112, paragraph six,
22 when you have a step plus function or means plus
23 function. If you don't properly police the disclosure
24 requirements, particularly in software patents, and you
25 don't mandate, for example, as I have suggested in some

1 of my work, you don't mandate the use of representational
2 languages, which is the way computer programmers talk to
3 each other, there is no problem here in the sense that
4 the patentee is someone who is skilled in computer
5 science. The examiner is another person skilled in
6 computer science. Let them talk the same language to
7 each other.

8 And the English language is a very blunt
9 instrument to police the disclosure requirement so
10 mandating the use of things like representational
11 languages, which we do in other areas, in other
12 technologies, for example, nucleotide sequences and all
13 these chemical formulae and all these other things that
14 are automatically required in biotechnology. But there's
15 no such corresponding requirement in software.

16 MR. COHEN: Scott.

17 PROF. KIEFF: Your question began talking about
18 the Doctrine of Equivalents, and we tied in a couple of
19 discussions on disclosure. And I think that makes a lot
20 of sense. Let me try, if I could, to bang them off
21 quickly, see if we can take them apart.

22 On the Doctrine of Equivalents we talked a little
23 bit about this earlier, so I'll say it briefly and we can
24 go back and look later in the text if we want, but at
25 least a group of judges at the Federal Circuit in the

1 Hilton Davis case and dissent, including Judge Rich, who
2 was not known to be unfamiliar with patents, had the view
3 that maybe the doctrine is not so good, period, full
4 stop.

5 So rather than have a discussion about what
6 limits or what ranges or what -- how about zero, or zero
7 except in exceptional cases, and throw that out as an
8 option to at least think about.

9 On the disclosure front, and Mark and Jay have
10 tied, I think, similar issues here, make a lot of sense
11 about the importance of the Section 112, paragraph one,
12 and also, in fact, paragraph two, disclosure requirements
13 and the need to give notice.

14 Because the important thing, the real muscle, the
15 real reason we've got those, I take it, is that we want
16 folks to know what's going to infringe and what won't.

17 This is not so much a kind of teaching to enrich
18 the art, although that's often the rhetoric. At least a
19 real important mission, if not the mission, is notice.

20 If we focus then on notice, there are some things
21 we can take from the discussions. One, it's actually not
22 clear that Amgen, Fiers and Lilly and their
23 interpretation of the disclosure requirements, those
24 three different cases, are biotech-specific because, in
25 fact, Lockwood, a computer case, applies exactly the same

1 reasoning.

2 And just in case we thought that was high tech
3 specific, I'm pretty sure that couches are low tech and
4 Gentry is a couch case. And it applies exactly the same
5 reasoning.

6 So, yeah, we all need to pay more attention to
7 it, but the court hasn't been technology specific on that
8 one. It's trans-technology.

9 A really neat suggestion might be to go even
10 further than what Jay suggested. In the biotech area we
11 require sequence listings. You have got to actually send
12 in the detailed info. And these biotech patents as the
13 Patent Office knows, you send in a computer disk, or you
14 can e-mail it now. But this is a big chunk of data.

15 Jay, you asked about beefing up disclosure in
16 software cases. Why not just dash an e-mail and send in
17 your code. And it could be either object code or source
18 code.

19 And I suspect what you want, based on what you're
20 talking about, and I think Mark would agree with this
21 too, is you would want source code because you want it to
22 be human readable.

23 And again, that's not a legal change. Some of
24 this stuff just comes down to why haven't lawyers made
25 this argument in court? And it may just be they haven't

1 had a chance yet, and they will because they're smart
2 lawyers and they'll litigate this issue.

3 So it may not be a problem that is fundamentally
4 kind of the system's broken. It may just be that case
5 hasn't percolated up yet.

6 MR. COHEN: Before we leave the -- I see Stephen
7 has his up.

8 MR. KUNIN: I think there were some interesting
9 points that were reasonably raised by Jay and Scott.
10 And, of course, if you listen to what they both said and
11 the legal basis for what they both said, I think you find
12 that we're in a conundrum, because the truth of the
13 matter is if you listen to what Jay said, the Fed Circuit
14 for the most part has dealt with the 112(1) issue for
15 software. He read off a litany of cases. There's
16 Robotic Vision, Hayes Microcomputer, Fonar, the Northern
17 Telecom case. You can go on and on.

18 And basically, whether you're talking about the
19 best mode requirement or the enablement requirement, the
20 requirement for source code is just not there. And have
21 smart litigators raised that? Yes. And they have also
22 lost it in front of the Fed Circuit.

23 But I would then point out that we have talked a
24 little bit about Enzo, and the interesting thing is what
25 does Enzo mean with respect to written description?

1 If Enzo were the law -- let's assume there is no
2 request for a hearing en banc and the court changing its
3 mind -- you could have a situation where, much like Scott
4 and Jay were mentioning, that if possession does not meet
5 the written description requirement you must describe
6 that which you possess, oh, I guess you better describe
7 software, because you may be in possession through the
8 functional narrative that you can put in a written
9 description. You can provide it in high-level flow
10 diagrams and the like.

11 But the interesting thing is if indeed we've got
12 one patent law for all technologies, the implications of
13 Enzo could cross over technologies.

14 My final comment is I think you were doing really
15 well, Jay, until you mentioned Gentry Gallery because,
16 yes, Gentry Gallery is a couch case with recliners, but I
17 think unfortunately with cases after Gentry Gallery,
18 Zebco in particular and a few others, I think the court
19 kind of is putting Gentry Gallery in its omitted element
20 test, kind of in the corner and saying, "You just stay
21 over there until we need you again." So I think, in
22 essence, I do agree that Lockwood is a good case for
23 crossover to other technologies.

24 MR. COHEN: Before we leave the area of breadth I
25 didn't hear many takers on the pioneer invention. Let me

1 try the reverse of that. What we often see in scholarly
2 articles is a lot of stress on the benefits that could
3 flow from greater use of the Reverse Doctrine of
4 Equivalents.

5 What we heard at our session in February, when we
6 were given an objective reading as to where the state of
7 the law was, was that this just doesn't -- it's a
8 doctrine that just isn't used. Would anybody like to
9 jump in and opine on the doctrine? Let's try Arti.

10 PROF. RAI: I think as a doctrinal matter it just
11 isn't used, but I think that it's partly for the reason
12 that it would serve -- I mean, I think Rob Merges has
13 been a big advocate of this idea, that it could deal with
14 a difficult transaction cost in blocking patent
15 situations.

16 I think it serves an explicitly economic function
17 or could serve an explicitly economic function. One of
18 the reasons it isn't used is because I don't think the
19 Federal Circuit sort of thinks in economic ways. So
20 there's no reason for it to be used at least as our
21 current Federal Circuit is constituted.

22 MR. COHEN: Salem.

23 MR. KATSH: If there was any doubt how the Federal
24 Circuit regards the Reverse Doctrine of Equivalents, it
25 made itself more than clear in Tate Access, where I think

1 it said something to the effect that it has never based a
2 case on it, and it never will.

3 The last part is paraphrased but they were saying
4 that they're not going to attempt to do justice on the
5 basis of arguing that there's a screwy result.

6 MR. COHEN: I'd like to move on to enablement. I
7 did note that Jay Thomas had to be away during most of
8 the discussion of obviousness this morning. Is there
9 anything in particular that you want to get into on that,
10 or should we just go forward?

11 PROF. THOMAS: I'm reluctant to speak with the
12 preliminary discussion that might have already occurred,
13 but I think Mr. Kunin has already raised reality, which
14 is the Federal Circuit is making it extremely difficult
15 for the U.S. PTO to reject applications where there is
16 not a fully anticipatory reference at their disposal.

17 Effectively, they need a Section 102 reference to
18 provide the motivation for combining the 103 references.
19 I think that's a very difficult position for the U.S. PTO
20 to be in. And as well the U.S. PTO needs to write a
21 fulsome tome to be able to reject an application under
22 cases that were previously mentioned.

23 So I think we have to think about the obvious
24 behaviors that are going to come from this set of
25 incentives, which is the PTO makes more money if they

1 allow applications to issue.

2 And anyone with a small child at home, I know
3 it's many of us, knows that allowance is easier to do and
4 is more satisfactory than rejection, if you've ever
5 denied a piece of chocolate to a little one. So I think
6 these truths put the U.S. PTO in a very bad position.

7 MR. COHEN: Enablement. We'll treat it very
8 closely with description. I think we've been into both
9 subjects already to some extent, and I'd look for any
10 comments you might have on whether you regard current
11 practice in the enablement area as optimal.

12 And what I want to stress here is that we heard
13 during our sessions in Berkeley from Rob Merges. And he
14 tried to describe enablement as a doctrine that
15 determines how many next-generation products a given
16 patent covers.

17 And I think we heard from Mark just a little
18 while ago you talked about how fine tuning of this
19 doctrine could have a lot of importance.

20 Would anybody like to give their views on where
21 it stands and where it, perhaps, should be going? Any
22 further thoughts on enablement? Mark.

23 PROF. JANIS: I guess I can elaborate. I mean, we
24 talked about how there seem to be problems in the
25 software patent area with a really liberal enablement

1 standard. I would agree with that. I think the court
2 could make that much more rigorous with good effect.

3 The other comment I have relates not so much
4 directly to the enablement requirement, but to the
5 description requirement. And that is, I guess, maybe in
6 distinction to what Scott Kieff said, I do take seriously
7 the teaching function of the specification, and I think
8 the enablement requirement is well focused on that.

9 The claims provide notice in my view, and I think
10 that the recent history of the written description
11 requirement is a little startling, I think, culminating
12 in this very recent Enzo Biochem case.

13 I think the written description requirement has
14 been very, very difficult for the Federal Circuit to
15 characterize in any way that's very meaningful. I
16 thought that the possession standard was the governing
17 standard until last week, when I was told in the Enzo
18 Biochem case that that wasn't a comprehensive answer
19 either.

20 And when I look at that area of jurisprudence, it
21 just makes me suspicious, and so some of my work suggests
22 that perhaps this effort to elucidate the written
23 description requirement is not worthwhile, that it
24 detracts attention away from the enablement requirement
25 where more good work could be done.

1 So I don't go quite so far as the one article to
2 say that we ought to get rid of the written description
3 requirement altogether, but I'm sort of teetering on the
4 brink of that proposition. But mostly to draw attention
5 to the fact, again, as I said just a minute ago, that I
6 think that the enablement requirement has a lot of
7 potential and could be much better utilized than it has
8 been so far.

9 MR. COHEN: Jay.

10 PROF. KESAN: I wanted to follow up on Steve's
11 points. The Federal Circuit jurisprudence in this area
12 goes back to this old CCPA 1980 case, *In re Sherwood*,
13 where you have this language where basically the court
14 said the conversion of a complete thought into a language
15 a machine can understand is necessarily a merely clerical
16 function, which is sort of all of software is just that.

17 And they just repeatedly, *Fonar* and other cases,
18 they simply cite to that, and I think in 1980 software
19 was considerably less complex than it is today. And so I
20 think we really have a problem there. And I agree with
21 you that the PTO is stuck because the Federal Circuit is
22 not policing this requirement. I agree with that.

23 But what I wanted to mention relatedly was
24 enablement really has two parts. It's both how to make
25 and how to use. And in the software area you never see a

1 proper analysis of both these parts because a very
2 important part of enabling software is not only just how
3 the algorithm is written but how the algorithm is being
4 tailored for use in this application.

5 And that's where in the pharmaceutical area and
6 in the biotech area there's lots of cases that describe,
7 that police, the issue of how this particular drug is
8 administered and so on. And yet you don't find any such
9 analogies in the software area. So it's actually a
10 pretty serious problem and a pretty big oversight in my
11 view.

12 MR. COHEN: Steve.

13 MR. KUNIN: I want to make a brief comment on what
14 Mark Janis was saying in terms of the state of the
15 written description requirement. I would submit to you,
16 based upon my own personal experience in dealing with the
17 substantive patent law treaty negotiations, that when the
18 United States delegation discusses the substantive
19 written description requirement in terms of Regents of
20 California v. Eli Lilly or Fiers v. Revel, the rest of
21 the world looks at us like we don't know what we're
22 talking about, because they just cannot comprehend how
23 you could have different requirements for written
24 description and enablement.

25 So if we're ever going to move in harmonization

1 we're going to have to deal with this written description
2 issue. Either bring the rest of the world in our
3 direction or just give up on this.

4 The other point that I would like to make is we
5 have talked about enablement but of course we haven't
6 talked enablement.

7 I agree with Jay from the standpoint of, yes,
8 there's a how-to-make-it and a how-to-use requirement.
9 But remember, the law of enablement is based upon the
10 evaluation, the In re Wands factors, and you have to go
11 through that analytical analysis.

12 And what are you trying to prove? To determine
13 whether the invention for its full scope would be enabled
14 for that particular purpose or use without undue
15 experimentation. And that I think is a decisive line
16 drawer between the debate over things like unpredictable
17 technologies versus predictable technologies.

18 And while I understand Jay's frustrations,
19 especially as a Ph.D. in the software field, I believe
20 that the current feeling with respect to software
21 inventions is that they are in predictable arts and that
22 when you do apply the In re Wands factors you get to a
23 substantially different conclusion than you do with
24 technologies that have long been categorized as
25 unpredictable. And then you say there are a lot of

1 factors under Wands, the extent of experimentation
2 required and the like.

3 But I think that really at the heart of the
4 matter here that we haven't really gotten to is the
5 aspect of the relationship between the utility
6 requirement and the enablement requirement in particular
7 when you look at enablement for the invention as claimed.

8 Now, where the claim itself has a particular
9 utility, a particular use, it's most readily exemplified
10 in, for example, method-of-use type of claims, as opposed
11 to product claims.

12 It's clearly the case that those things fall out
13 for in a straightforward manner where, as you know, all
14 you need is to have either one asserted utility or one
15 that is well established for your invention if, for
16 example, the invention is a product invention.

17 So if you have a utility that can be enabled for
18 that particular product, when you flip it over to the
19 enforcement side you get enforcement against all uses.

20 And so as far as I understand in my reading of a
21 lot of the debate, really the debate has to do with the
22 fact that you get this degree of protection based upon
23 perhaps a single utility when, in fact, the claim will
24 protect against all uses and subsequent uses regardless
25 of whether they're patentable, unpatentable.

1 And I think to a large degree this aspect of all
2 you need is one and you're in the door, is maybe some
3 aspect of perhaps where the academic discussion could
4 take place. Because that's where I see is the hardest
5 deal for us to deal with in an examination issue.

6 MR. COHEN: Well, we could go in a couple of
7 different directions here. Let me just follow up on
8 where you took us because this is a question I had wanted
9 to address in the utility context, the issuing of patents
10 based on a single utility.

11 I'm wondering if anybody has any comments on
12 whether this allows for adequate incentives for follow-on
13 innovation in settings where a later innovator discovers
14 a new use for a patented process.

15 The utility that had originally been discovered
16 is quite different than what the new innovator would come
17 up with, and yet the patent is there. How does this fit
18 in? Scott, let's start with you.

19 PROF. KIEFF: Okay. Let me just spend two seconds
20 on just a couple of the preliminary issues that were
21 talked about. One is the notion that the Federal Circuit
22 is not technologically grasping what it's doing. And I
23 think that it's important to keep in mind a couple of
24 things.

25 Number one, we've got a number of judges on that

1 court with Ph.D.'s in hard sciences. I think it's a hard
2 case to make that they don't understand the technology.

3 Number two, it's a court that has a specific
4 budget line item for a staff of senior technical
5 advisors. I think it's probably hard to make the case
6 that they are not devoting some resources to that issue.

7 And at least it's my understanding that in fact
8 the law clerks on that court have their pay scale
9 adjusted if they have a technical background to reflect,
10 yet an added concern that the court is -- now, maybe it's
11 not doing a good enough job but at least it's focusing
12 some effort on that issue.

13 On the written description/enablement problem
14 that Steve Kunin pointed out, interesting problem
15 separating out written description, enablement and, in
16 fact, utility. Brief answer there.

17 It seems to me that exactly in a fast-moving
18 field is where you're going to see easy-to-enable and
19 hard-to-describe. Because I have no idea what I'm doing
20 but everyone can do it, so once I provide my disclosure
21 everyone is enabled.

22 In fact, I'm not sure how hard that is to enable,
23 but I do think I really haven't yet gotten my mind around
24 what I've invented. And that's a conception and written
25 description problem. And conception and written

1 description are tied expressly in Fiers.

2 On utility I guess the simple answer there is no
3 one infringes a useless patent. And if it's too useful
4 that seems to answer Suzanne's search about what patents
5 do we care about? Well, the ones that are useful.

6 So the utility requirement, I guess, in my mind
7 has never made any sense except to the extent that you
8 read Section 101 as an introductory section, which the
9 court has told us expressly it does.

10 The novelty requirement in 101 does not get a
11 special treatment. The court has told us that we look to
12 102 and 103 to understand what novelty means in 101.
13 Utility appears in 101, and maybe what we need to do is
14 we need to look to 112 to see what utility means, just
15 like we look to 102 and 103 to see what new means.

16 But other than looking there, it's not clear that
17 we need a separate utility requirement that means
18 anything more than that.

19 MR. COHEN: Let's try Arti.

20 PROF. RAI: A couple of points. The fact that a
21 few judges on the Federal Circuit, I believe it's either
22 three or four, have Ph.D.'s in hard sciences doesn't mean
23 that they are adept in any particular science.

24 Having a Ph.D. in chemistry doesn't give you
25 expertise in molecular biology, for example. And this is

1 where I think Jay Kesan has made some very interesting
2 points in his work on how localized knowledge is in these
3 areas.

4 If you talk to people who actually practice in
5 the area of molecular biology about cases like Eli Lilly,
6 they'll just shake their heads in despair, basically, and
7 so I find the idea that the mere fact that somebody has a
8 Ph.D. shouldn't insulate them against the collective
9 weight of the people who practice in an area.

10 The utility point is a very interesting one
11 because I think it shows the way in which enablement
12 isn't really -- I mean, it's in part about making and
13 using the invention but because tying to a single utility
14 on a product gives you a product patent with respect to
15 all utilities, it also shows the extent to which
16 enablement is really, and I keep on reiterating this, a
17 question of economic policy, which means we basically
18 decided as a matter of economic policy that if you
19 isolate a particular product and you come up with one
20 use, that should give you claim over all uses, even if
21 you have no idea how to enable people with respect to the
22 other uses.

23 And whether that is a good policy judgment or not
24 I don't know, but it seems to me that it gives a pretty
25 broad claim to the initial inventor that has really

1 nothing to do with making and using the invention at all.
2 It has everything to do with economic policy. And so I
3 think we're kidding ourselves if we really think it's
4 about making and using the invention.

5 MR. COHEN: Jay.

6 PROF. THOMAS: I just have a handful of scattered
7 remarks. If you're concerned about a composition of
8 matter covering all subsequent utilities, a proposal
9 that's been made is simply to disallow claims on
10 composition of matter and only allow claims toward their
11 uses. That certainly solves that kind of problem.

12 And that's kind of old to the literature though
13 I'm not sure how we're able to do that given our
14 international obligations.

15 It's interesting to see if the utility
16 requirement would be wholly eliminated because Section
17 101 certainly would cease to do any work. Certainly
18 there's a statutory subject matter that's been collapsed
19 into the utility requirement, which would then be
20 collapsed into nothing.

21 So that steadily eliminates gatekeeping through
22 the patent system and makes more things patentable. And
23 I think those have some very serious repercussions.

24 I would join Mark Janis and perhaps state it even
25 more strongly that I just think the written description

1 requirement really just doesn't make any sense for the
2 reasons that were given and as well would ask can we
3 really train 3300 examiners in the written description
4 requirement?

5 I think you'll find no better articulation of the
6 written description requirement in the written
7 description guidelines. But the fact is can we really
8 communicate that to the entire corps of examiners? Well,
9 my guess is if we tried to figure out what it was among
10 us right here we probably wouldn't come up with a very
11 good definition.

12 I think obviously some hard things are worth
13 doing and complexity shouldn't scare us off, but it's
14 another factor that I think is hard to administer.

15 I would also agree that I think background in two
16 people with Ph.D.s in chemistry and a couple of others
17 with B.S.'s here and there doesn't necessarily
18 acknowledge or mean expertise in all fields.

19 I certainly agree with that, and I think that's
20 precisely the problem in cases like Eli Lilly is that
21 people come from a chemistry perspective and believe that
22 that chemistry background works within biotech, ignoring
23 the redundancy of the genetic code and relying upon
24 typical manners of researching chemical compounds, which
25 don't necessarily occur in biotech. And I would also,

1 going back to written description, I would wonder if it's
2 really about one technology or one judge. Thank you.

3 PROF. RAI: Exactly.

4 MR. COHEN: We'll take Jay and then Salem and then
5 I've got a couple of wrap-up questions on the substance.
6 Jay.

7 PROF. KESAN: Yes. I just wanted to follow up on
8 a couple of points on written description and enablement.
9 Actually, in the software area regarding the actual
10 enablement standard about whether it's trivial
11 experimentation, reasonable experimentation, undue
12 experimentation or it takes another invention, that's the
13 sort of sliding scale that you see in the Federal Circuit
14 case law. There is a lot of enablement cases where it is
15 not undue experimentation. It's well beyond undue
16 experimentation. The disclosures are so scant that
17 you're really talking about basically taking another
18 invention to actually enable what is disclosed. So
19 you're sort of way over the edge there. And that's what
20 I meant when I said the written description is not
21 policed.

22 As far as the written description and enablement,
23 actually the software cases are a good area where it
24 actually shows that the written description does work in
25 a way that is not covered by enablement. And in part it

1 goes to what Scott had mentioned, and that is that the
2 written description requirement, the way I understand it,
3 is that it's really designed to serve the notice
4 function. It's designed to describe the metes and bounds
5 of the invention, so that when you have subsequent
6 innovation and you have cumulative innovation, you can go
7 back and say that was what that invention was about. And
8 my invention is different.

9 And so it's just going beyond saying I have
10 enabled the invention for somebody else to realize this
11 or how to make and how to use the invention. It goes
12 beyond that. It's the notice issue and it's the issue of
13 describing the invention and the metes and bounds of the
14 invention, which is something that's not covered
15 traditionally in enablement.

16 And that, I think, has consequences to what
17 Suzanne Scotchmer was saying, where you have cumulative
18 innovation and you're trying to go back and interpret
19 what those terms mean.

20 MR. COHEN: Salem.

21 MR. KATSH: I want to comment on a few points. I
22 don't believe -- I remember when I first started patent
23 law groups in the context of a general practice firm and
24 I started looking at the kinds of opinion letters that
25 they would write.

1 And I immediately saw that they were writing as a
2 technical expert more so or at least equally as a lawyer.
3 And I cut that practice out. Lawyers are not technical
4 experts. Lawyers should not be giving opinions on how
5 they evaluate technology, nor should judges.

6 Judges are not supposed to bring to a case their
7 individual expertise from their high school science or
8 Ph.D. course. They're supposed to be judges of the law
9 and based upon a record. So it really troubles me on the
10 one hand there's the notion that we have an expert court.
11 I don't know what that means. Expert in what?

12 As I noted earlier very few have sophisticated
13 science backgrounds but more troubling is that very few
14 have judicial backgrounds. That's what I would look for
15 in a court are people with basic judicial temperament.

16 In the antitrust area, where I also practice,
17 there was the case of United Shoe, a big trial in the
18 early '50s, where Judge Wyzanski from the First Circuit
19 had Carl Kaysen, a famous economist from Harvard, I
20 think, serve as his private law clerk to advise him on
21 the economic issues raised in this monopoly case.

22 And I believe that it was either Kaysen or
23 Wyzanski or both that subsequently felt that that was an
24 improper -- not improper but that it was not consistent
25 with the proper judicial mode to take basically ex parte

1 expertise in deciding a case.

2 And I don't know the inner workings of the
3 Federal Circuit. I'm sure there are roles to be played
4 for competent help in understanding things, but that's
5 not their job. Their job is not to decide whether some
6 DNA sequence is obvious. Their job is to decide the law
7 on the basis of the record.

8 Now, going to the enablement issue I'm trying to
9 understand if I heard what you -- the answer to your
10 question about what a pioneer patent is. Because I think
11 I did. And that is a patent that has a very broad claim
12 that is enabled for a single utility.

13 Now, a pioneer patent is a conclusion. It's not
14 a reason. And the problem with those patents is the
15 question of whether they are in fact enabled for
16 additional species, as they say.

17 The entire area of genus-species is one that I
18 must say is very confusing. It's talked about a lot just
19 as pioneer patent is talked about a lot. And as far as I
20 can tell, there are very, very few cases on it.

21 So the person who goes for the broad claim with a
22 small enablement runs a risk of being shot down, either
23 because his claim is going to sweep in prior art or
24 because he's going to be deemed to have not enabled the
25 millions of species that his broad claim may literally

1 cover.

2 So I think that's an area where there is, and I'm
3 not blaming the courts in this case, I just think that --
4 maybe I'll blame the PTO -- but the narrow claim, if you
5 go to Suzanne's point, and I've talked about this with
6 some of my colleagues, you're going basically to that
7 metering function, which I think somebody has written an
8 article about, that you basically issue the patent with a
9 very narrow claim. There's no equivalents. That's it,
10 and the marketplace decides the value.

11 That may be one answer to a lot of these
12 questions, realizing that there's no perfect answer.
13 Literal, narrow -- but then you have to have meaningful
14 claims. And you can't have 30 or 40 percent of claim
15 construction reversed.

16 MR. COHEN: Roger, I don't think you've been in on
17 this round, so I'll give you a chance.

18 MR. PARKHURST: Well, I was just going to remark
19 that I think to its credit the Federal Circuit has really
20 gotten away from conclusory labeling of patents and
21 claims as pioneer and has tried to pay attention to the
22 statutory criteria rather than such labels.

23 The old school, of course, was that, quote,
24 pioneer patents were entitled to some extraordinary
25 scope. And I think they have really gotten away from

1 that, and I think that's good.

2 In terms of utilities beyond those contemplated
3 by a particular patent disclosure, I think the law is
4 clear that if there is a new use of a disclosed
5 invention, whatever it would be, that it is possible to
6 claim that at least as a new method, if you will.

7 And so it comes back to the standard of
8 patentability. So I think there is a place for that in
9 the existing matrix.

10 MR. COHEN: Just a final question on the
11 substance. We have heard at some of our earlier sessions
12 about the use of continuations and the possibilities that
13 this can open up to modify claims in ways that permit
14 covering subsequent developments in the market by
15 competitors.

16 I'm wondering if any of you have thoughts as to
17 whether the combination of the description and the
18 enablement requirements adequately deals with this?
19 Arti?

20 PROF. RAI: This relates to what I was going to
21 say about written description as well. Written
22 description, it seems to me, does have a function, and
23 Janice Mueller has a good article about this in the
24 context of continuation patent applications, in general,
25 in the context of later-filed claims, because those

1 claims may be filed just precisely to deal with stuff
2 that's emerging in the marketplace that the patentee
3 didn't originally claim but now wants to claim.

4 So that's the purpose of the written description
5 requirement and prior to Judge Lourie's beginning to use
6 this in biotech cases for originally filed claims, that's
7 how it was used.

8 And, in fact, Gentry Gallery, which is the
9 nonbiotech case that's always cited, was a case involving
10 a later-filed claim. It wasn't a continuation patent.

11 I think they amended their original patent, but
12 once again, as far as I can tell, that's the only
13 legitimate use of written description, because otherwise
14 the originally-filed claim should provide the requisite
15 notice of what the patentee -- what, sort of, the metes
16 and bounds as it were of the patentee's patent.

17 And so it seems to me that continuation
18 applications can be a problem, but that is the precise
19 problem that WD is supposed to address.

20 MR. COHEN: Steve.

21 MR. KUNIN: I think continuation practice can be a
22 way to create submarine patents in essence, but I think
23 there have been some cases where even from the standpoint
24 of appeals from the Board, like In re Hyatt, where in
25 essence the so-called reinventing aspect of essentially

1 trying to write a claim that will literally infringe the
2 later developed technology in essence, to a large degree,
3 goes back to, I think, some of the aspects of what is
4 proper claim interpretation and how you read that in
5 light of and consistent with the supporting written
6 description of that application and anything in its
7 parentage in order to go back to earlier dates.

8 I think we find that even in practice what will
9 happen, especially with that type of evolution and long
10 chain of applications, that it usually comes down with us
11 to a fight over which application in the long chain of
12 continuations actually has support under 112 for that
13 particular claim.

14 And in fact, by not giving benefit under Section
15 120 to some of the earlier applications in the chain,
16 intervening prior art, and I'll use that term loosely
17 here, because many times it turns into actually a lack of
18 novelty or nonobviousness because the art which then is
19 applicable to those claims is available to attack those
20 claims in addition to the aspect of the written
21 description/enablement.

22 But in practice to a large degree what we find is
23 the written description/enablement component of that
24 analysis has to do with finding the point in time where
25 Section 120 benefit is no longer available and then

1 hammering the applicant on those claims with prior art,
2 saying you can't use these earlier disclosures and this
3 art is useful against you. We will apply it, and we will
4 show your claims are not novel and not nonobvious.

5 MR. COHEN: Jay.

6 PROF. THOMAS: This comment might move more to the
7 procedure --

8 MR. COHEN: That's where we're heading.

9 PROF. THOMAS: But I just want to stress more how
10 important continuation practice is from the
11 practitioner's perspective because it effectively is a
12 way to get around the broadening reissue requirement.
13 You simply maintain continuations for the entire life of
14 the patent and simply add what you can later.

15 And another trick beyond continuations is simply
16 filing multiple applications with either identical or
17 very similar inventions. And the PTO often has trouble -
18 - Rule 105 gives them a mechanism and their computer
19 system gives them a mechanism, if it's done and if all
20 records are kept, but by simply having multiple
21 applications sometimes that are identical, its persistent
22 accounts speak to that.

23 And you can often -- although you can't pick an
24 examiner you can try different examiners, and sometimes
25 results will differ. So that's yet another technique

1 that can be used to enable strategic behavior.

2 MR. COHEN: Salem.

3 MR. KATSH: Well, I think that the extent to which
4 the system encourages tricks and techniques is something
5 that should be dealt with. And I think part of the
6 President's commission, back in the '60s, one of their
7 more specific points was that the subject matter that's
8 put forth in the original application ought to get wound
9 up with the divisionals and continuations within a
10 certain period of time, so that it doesn't go for the
11 life of the patent, that there should be an endpoint.

12 You don't want to make -- the inventor may
13 legitimately find that he needs to add or change and
14 there should be a time period for that. But to have it
15 go on forever, I mean, the system invited Mr. Lemelson to
16 do what he did. Had the commission's recommendation been
17 accepted then, his lawyer wouldn't have that house in
18 Aspen or whatever.

19 Another point on continuations, I find it
20 paradoxical to look at the Johnson and Johnston case, and
21 the majority concludes by saying, having limited the
22 claims to a sheet of aluminum then they can't claim what
23 the specification describes, which is aluminum is
24 currently the preferred material. Other metals such as
25 stainless steel can be used.

1 Now, of course, the infringer was using stainless
2 steel. The court says you dedicated stainless steel to
3 the public domain in your specification. You didn't
4 claim it. You're out of luck. And then the final
5 sentence of the court's opinion says, oh, by the way, you
6 can get around this problem either by a reissue
7 proceeding or, as Johnson and Johnston did in this case,
8 file continuations that literally claim stainless steel
9 and these other alloys.

10 So I don't know if those are issued applications.
11 You have an opinion here that's basically telling people
12 you can rely on the specifications as far as what's been
13 dedicated, but you can't because you don't know whether
14 they have got continuations properly being pursued. I
15 think that's a dilemma. You noticed that, right?

16 MR. COHEN: Now, turning more fully into the
17 procedural side of things. I think probably another way
18 to connect up to what we've been talking about would be
19 to take a look -- to start with the elements of a prima
20 facie case before the PTO.

21 One of our speakers early on told us that there's
22 a presumption of enablement and that evidence that
23 something doesn't work may be hard to find because the
24 patent office doesn't have testing facilities and
25 failures don't necessarily get published.

1 We also heard early on that in the context of
2 written description the guidelines say that there's a
3 strong presumption that written descriptions are
4 adequate.

5 Given considerations like this, I'm wondering if
6 people have views on whether the prima facie case holds
7 up properly. Is it an adequate test for a patent, for
8 validity issues? Jay.

9 PROF. THOMAS: I would just comment that patent
10 applicants are in a really great position because by
11 filing an application they're presumptively entitled to
12 receive the grant. And the PTO is not in a position to
13 test many of their claims and, in fact, will often accept
14 basically naked statements without supporting evidence.

15 For example, date of invention, to antedate a
16 reference. It is presently the practice of the office to
17 accept a Rule 131 affidavit stating that I invented prior
18 to the date of the reference.

19 Now, the MPEP tells us that you're supposed to
20 have at least some supporting evidence, for example a
21 notebook page, but you're allowed to redact the date of
22 the note. So you can just basically have a letter and a
23 stripped page.

24 And it's my understanding that some additional
25 groups have just dispensed with the page because it

1 doesn't offer any additional insight, so they simply
2 accept a statement, I invented before the date of the
3 reference, and that's it.

4 As well, once you get the patent you have a very
5 strong presumption of validity. So there's a lot of
6 presumptions, et cetera, helping out.

7 Now the prima facie isn't inevitable. If you
8 read cases like Oetiker and Judge Plager's concurrence it
9 says things that well, how can we do it any other way?
10 Are applicants supposed to shoot at the dark wondering
11 what objections the examiner might harbor in the future.

12 It doesn't really have to work out that way. One
13 thing that could happen is that the applicant could go to
14 an approved authority to do a search, or the PTO could
15 simply present the applicant with a search. And then it
16 would be up to the applicant to classify the art and
17 present a statement of patentability over the art.

18 You could shift these burdens of persuasion and
19 production to some degree. So I think that's something
20 that bears some rethinking.

21 MR. COHEN: Anyone else on this point? Okay.
22 We've gone a little bit more than an hour. I think what
23 we'll do is take a short break. Let's say ten minutes at
24 most. We'll start again ten minutes from now at 3:15 and
25 by taking the break, we've got a lot to cover. We may

1 run ten to 15 minutes over, but we'll try to get done
2 within that time frame. So we'll begin again at 3:15.

3 **(Whereupon, a short recess was**
4 **taken.)**

5 MR. COHEN: We're going to begin the rest of our
6 session by having a couple of presentations. The first
7 will come from Professor Kesan.

8 PROF. KESAN: I will try and stick to my allocated
9 ten minutes. The purpose of this talk here is to follow-
10 up on a couple of things that have already been mentioned
11 by a number of people, and it relates to this issue of
12 who has the best information and how that can be brought
13 to the attention of the PTO in the examination process.

14 There are a number of people who have made
15 comments about how the PTO does not have good knowledge
16 of the prior art. I have seen at your FTC site there's a
17 number of comments made by other people.

18 The most recent one I saw last week was comments
19 by Josh Lerner, who has made the same sorts of comments
20 that the PTO has issued patents on various sorts of
21 things that have been known for decades. And so there is
22 a common belief that there's a need to enhance the
23 quality of the issued patents.

24 And the key question in my mind is how? And what
25 I would like to suggest is that the answer lies in

1 getting better information. Of course, resources and
2 more examination time is helpful, but it's not nearly as
3 helpful as getting good information from the people who
4 know it best.

5 In order to really talk about this in a
6 meaningful way it's important to understand what is
7 relevant prior art when you're examining a patent.

8 Most of us truly cannot tell if there has been an
9 advance in any subfield in patent law until we have
10 really pored over what has been written in that area.

11 If somebody were to simply ask me what is the
12 latest writings on patent misuse, I may be a patent
13 person, I may teach patent law, I may write patent
14 articles but I have no way of knowing what is new and
15 what is old in patent misuse right off the top of my head
16 unless that really happens to be an area where I have
17 actually done some writing.

18 This sort of localization of knowledge is
19 actually a very well-recognized concept. It's very well
20 recognized in information economics and information
21 sciences. It's also very well recognized in people in
22 the library and information science community, so-called
23 knowledge management people.

24 And all of them basically talk about how
25 information is organized in these concentric circles, and

1 technical and specialized knowledge is in the innermost
2 circles in the sense that it's known to the least number
3 of people.

4 And so, in short, we simply cannot assume that
5 the PTO is well informed about the relevant prior art.
6 And it's not simply a matter of saying, okay, here is
7 five or ten more hours for you to go and search the prior
8 art. In order to truly understand the terms that are
9 being employed you really have to be immersed in that
10 field.

11 So the related point to this, of course, is well
12 so what? I mean, we have a system where we, after all,
13 have a two-stage bargain. In the first stage you go to
14 the Patent Office, you get your patent right, but it's a
15 contingent right.

16 It's a contingent right because in the second
17 stage, in the litigation stage, you can fix it. You can
18 go change the claims. You can invalidate claims. You
19 can narrow the scope and so on and so forth. So what's
20 the big deal and why does it matter?

21 And the big deal here is really that as we have
22 just begun talking about, we have all kinds of
23 presumptions. We have all kinds of deferences. All the
24 art that gets cited in PTO Form 1449, there are strong
25 empirical studies that show that it's rarely ever used by

1 a court to invalidate the patent, and your patent is --
2 the best thing you can you do if you want to have a good
3 patent is to list everything in the information
4 disclosure statement and get it signed by the examiner.
5 And you know your patent is bulletproof with respect to
6 that.

7 At the same time, if patents are overbroad or
8 they're improvidently granted, there is a whole lot of
9 serious things and a whole lot of social costs that are
10 imposed by these sorts of things. There is a typical
11 problem of opportunistic licensing by a lot of individual
12 inventors at times, who can easily create hold up and so
13 on and so forth. And we can think of a whole bunch of
14 them.

15 So the basic theoretical solution to this problem
16 of social cost is to simply say that I am going to set
17 the marginal investment in information gathering to be
18 equal to the marginal reduction in the social cost that
19 you get from having better patents. I mean, that's sort
20 of from the social welfare standpoint, that's what makes
21 sense.

22 So a way of improving the efficiency of
23 information gathering is to simply say I'm going to get
24 better information from the folks who know it most. And
25 the folks who know it most are the patentee and the

1 competitors. So we've got to think seriously about ways
2 that the patentee and the competitors can weigh in. And
3 that's what is the critical point.

4 I'll mention a few things about the patentee and
5 I'll mention a few things about mechanisms for third
6 parties, and then I'll talk a little bit about litigation
7 reform with respect to this precise issue of relevant
8 prior art.

9 My suggestion is that we do one of two things,
10 that we try and go back to a regime where we had better
11 prior art disclosures. We have had better prior art
12 disclosures in the past, and there was a concern that all
13 that this does is it empowers the defendants to make
14 inequitable conduct charges.

15 Well, inequitable conduct is not that much of an
16 issue any more. The standards for inequitable conduct,
17 especially the intent requirement, have been set very
18 high. And I think we want to be in a situation where the
19 prior art that is disclosed meets the issue of
20 patentability of the claims as filed.

21 In other words, there has to be a discussion for
22 how every relevant piece of prior art is patentable over
23 the claims as submitted. And we can either mandate it --
24 after all, the regulatory state and administrative
25 agencies routinely get information through disclosures.

1 That's the way you solve the information asymmetry
2 problem. You mandate disclosures whether it's the FDA,
3 EPA or the SEC.

4 The second option is to basically say -- is to
5 present it as an incentive and say there is going to be
6 no general presumption of validity, which has been
7 interpreted by the Federal Circuit as meaning clear and
8 convincing evidence to invalidate a patent. Instead, you
9 would get this kind of a presumption of validity only for
10 prior art that is properly disclosed. In other words,
11 you get a specific presumption of validity only with
12 respect to prior art that's properly disclosed. So you
13 create a sort of incentive.

14 So if you don't properly disclose it, you get
15 nothing. And this is a very valuable thing, because if
16 you think about it, in the patent system it's the public
17 that retains these very important residual rights to
18 invalidate the patent.

19 And that's the intrinsic patent bargain, that you
20 get these exclusive rights. You get a disclosure back,
21 but the public retains these residual rights to
22 invalidate the patent. And giving away these residual
23 rights with these broad presumptions of validity is not a
24 good thing when you don't get anything back in return.
25 These are chits that we have to carefully trade for

1 things that we really get back in return. And we have to
2 think about it that way. So that's as far as the
3 patentee goes.

4 At the very least if we don't do that and we
5 don't have an enhanced disclosure, then we should think
6 very seriously about eliminating the presumption of
7 validity that we have today because the presumption of
8 validity that we have today simply trades away our rights
9 to invalidate, and you get nothing in return.

10 So that's really the worst possible situation and
11 we at least have to -- we could move in either direction
12 but it would still be better than where we are today.
13 And I've written more about the theories behind all this,
14 and you can take a look at some of my other writings.

15 As far as third parties goes, the reality is we
16 have a very real problem in the cost between getting a
17 patent and invalidating a patent. You pay \$25,000 to get
18 a patent, and then it takes several hundreds of
19 thousands, as much as two-and-a-half million, to take the
20 patent down. And we've got a serious problem there.

21 We need to think of a reasonable cost alternative
22 to revocation or invalidation, that is a reasonable
23 alternative to costly litigation. I think, as was
24 pointed out this morning by Steve Kunitz, the current
25 interactive re-examination statute was dead on arrival

1 for very obvious reasons.

2 It's not very attractive and that's what would
3 have been our prediction, and it's indeed turning out to
4 be true that it's largely not been used. What we really
5 need is an opposition system. And what I would like to
6 suggest is that we need a pre-grant opposition system.

7 The main reason for a pre-grant system is simply
8 to get the information to the examiner before the
9 examiner has committed to an outcome. Behavioral
10 economists understand this problem very well. It's
11 called post-decisional cognitive dissonance, and that is
12 that basically once the institution or an examiner is
13 committed to an outcome, the amount of evidence that is
14 needed to change a person's opinion is more than if the
15 same evidence had been presented prior to him making a
16 decision. That's simply because we like to be
17 consistent, and we just basically end up discounting
18 things that raise dissonance or cause inconsistencies in
19 our mind.

20 And this is something that is a serious problem,
21 which is why in a lot of post-grant opposition systems,
22 for example in Germany and Japan, the use of these post-
23 grant opposition systems has been decreasing. And I have
24 talked to a number of people practicing, and they largely
25 prefer to go to the courts once the PTO has decided to

1 issue a patent.

2 Instead, what I suggest is that if -- there are
3 two concerns. One concern is that private parties might
4 decide that they want to wait for the PTO to do its job,
5 and so that's a reason not to have a pre-grant system.

6 And I suggest that we publish the application 90
7 days after the first office action. So we publish the
8 application 90 days after the first office action, and
9 you publish it with a list of the cited prior art, so you
10 know what prior art the PTO has. And if you have better
11 prior art, come in with it. You know where the PTO
12 stands. It has shown its hand, and you have a chance to
13 come in there and help the PTO.

14 Another concern that's often made with pre-grants
15 is that there is delay of harassment. That is, big
16 companies keep on filing oppositions and prevent small
17 inventors from getting their good patents. And that
18 again is a classic litigation problem. It's a classic
19 civil litigation.

20 It's a classic administrative tribunal's problem
21 where you have put in procedural safeguards for fixing
22 these sorts of things. You're not allowed to have more
23 than one opposition per party. You're not allowed to
24 bring the same kind of prior art, cumulative prior art,
25 over and over again, even to the extent of limiting pre-

1 grant oppositions to purely anticipatory prior art, so
2 that the most egregious cases get knocked out and you're
3 dealing only with 102.

4 There's a number of things that can be done, but
5 the important thing is that we need to think about
6 bringing third parties into the picture prior to the PTO
7 taking a decision.

8 Once the PTO has taken a decision and it has
9 spoken, we make a clean break, and we say next move on to
10 the courts. So you have a clear outcome from the PTO, a
11 clear outcome from the Patent Office where private
12 parties and the patentee have weighed into the process.
13 They have brought better information to the Patent
14 Office, and then you then move on and deal with the next
15 situation in the courts.

16 There's a couple of other things that can be
17 done, and that is we really want to also think about
18 creating disincentives for people to capitalize on the
19 information asymmetry and the lack of knowledge that the
20 Patent Office has, where you get patents through the
21 Patent Office and you then turn around and enforce it
22 against parties.

23 And to the extent that any license, et cetera,
24 that you're willing to offer is considerably less than
25 the cost of litigation, these parties are simply going to

1 turn around and take a license.

2 What I suggest is that we want to empower people
3 to hang in there and fight to invalidate the patents, and
4 one way, pro-defendant fee-shifting, is a very effective
5 way of doing that because what you're really doing is
6 you're changing the range of outcomes.

7 And by changing the range of outcomes you're
8 really empowering people to hang in there, and you're
9 basically encouraging patentees to make sure that their
10 claims are valid. You make sure that their claims are
11 valid and make sure that before they begin their
12 enforcement -- and I'm not talking about strange third-
13 party sales and so on here -- I'm talking about one-way
14 fee-shifting if your claims have been revoked or
15 invalidated based on prior art categories that could have
16 reasonably been discovered by the patentee.

17 We're not talking about -- 102 has a lot of other
18 strange things that are simply beyond the patentee's
19 control. But for things that are within the patentee's
20 control we want to create an ex ante incentive for the
21 person to do a thorough prior art search.

22 And one way of doing it is by changing the range
23 of outcomes for defendants, so that if defendants know
24 I've got good prior art, I'm going to hang in there. I'm
25 going to hang in there and litigate and choose to oppose

1 instead of simply settling. It's definitely something to
2 think about.

3 Along the same lines, another proposal to think
4 about is whether, when there is a collective action
5 problem or a coordination problem in an industry, where
6 parties are simply -- they know there's a bad patent but
7 they're simply going ahead and taking licenses, there is
8 room for government agencies like the FTC to basically
9 come in, and if they hear a lot of complaints where there
10 is a clear anticompetitive effect of a patent that's out
11 there, for them to come in and essentially solve the
12 collective action and coordination problem by opposing
13 and invalidating those patents that basically are a
14 problem for everybody, but each one is not individually
15 motivated to stick the two-and-a-half million in there to
16 fight it. It's again something to think about.

17 I think litigation reform where we try to create
18 disincentives for opportunistic patenting is something
19 that we should pay a lot of attention to.

20 In short, I think we can improve patent law by
21 getting better information from the patentee, getting
22 better information from third parties.

23 We really need to think carefully about the kind
24 of presumptions that we trade away when we don't get
25 anything in return. We really need -- I think, any

1 change from here is an improvement from what we have, and
2 we need to think about mechanisms for third parties to
3 come in, like pre-grant oppositions that rely on early
4 publication.

5 And finally, I think fee-shifting is a very
6 effective way of increasing the costs that will be borne
7 by patentees if their patents are revoked based on
8 readily discoverable prior art. It's another very
9 effective litigation reform tool. Thank you very much.

10 MR. COHEN: Thank you. Our final presentation
11 today will come from Professor Kieff.

12 PROF. KIEFF: Thank you very much to the
13 Commission and the Department for inviting me to help out
14 at these joint hearings. I've tried to dovetail my oral
15 remarks here to match up with the conversations that we
16 have been having during the day, so I'll be brief and try
17 to plug into those.

18 Everything that I'm saying here is explained more
19 fully in my body of written work, including the summary
20 of proposed testimony that I submitted in December, and
21 it's posted on the Commission and the Department's web
22 pages.

23 And let's kind of dive in. So we explored a lot
24 of the substantive criteria for determining
25 patentability, and we talked a little bit about

1 infringement. And the first thing I think we need to do
2 is keep in mind that those issues are not irrelevant to
3 the procedural discussion. And that's because everything
4 ties together here.

5 Suzanne, you asked some important questions about
6 what do we want patents to do? What incentives are we
7 providing? And we heard discussion about incentives to
8 disclose information, and we have heard talk about
9 incentives to invent and to make new technologies. And I
10 think those are important.

11 We should not forget that there's probably at
12 least one other important incentive out there, which is
13 the incentive to take new stuff that's already been
14 created and bring it to market. Let's just call that
15 commercialization.

16 I talk about that in my other work when we think
17 about the incentive to commercialize as a focus. If
18 that's a benefit, there are costs, and this is explored,
19 I think, really well in work by Arti Rai and Becky
20 Eisenburg and Michael Heller and others. There are a lot
21 of costs. There are costs to property rights. They're
22 sticky. They're clumsy. You've got to bargain over
23 them.

24 Let's look at that though. Presumably then we're
25 going to want a system that has fewer of those costs.

1 All other things being equal we want less cost, more
2 benefit. So what are the ways to screen? And we talked
3 about things like utility, and we talked about things
4 like, gee, this patent really deserves it -- sorry, this
5 invention really deserves a patent. But then how do we
6 screen deserves? How do we screen useful? How do we
7 screen important? I don't know.

8 The patent system has some screening techniques,
9 though, so we might look at those screening techniques
10 and see how costly they are to administer. The screening
11 techniques and the infringement rules, they all
12 interrelate, and they interrelate in the following way.
13 Judge Rich always told us the name of the game is the
14 claim. Every patent you look at the claim. The claim is
15 what it's all about.

16 You compare the claim to the allegedly infringing
17 product or process. That's the infringement analysis.
18 You compare the claim to the prior art. That's the
19 novelty and nonobviousness analysis. You compare the
20 claim to the original disclosure. That's what Mark and
21 Jay and I were exploring earlier. That's the written
22 description, enablement, and particularly pointing out
23 and distinctly claiming requirements.

24 So we take this claim and we map it different
25 places, we compare. But it's the same claim. Steve Kunin

1 and Salem each talked about some problems with claim
2 construction and how we do it and when we do it.
3 Interesting point.

4 Let's try to summarize and add all this stuff up
5 together. Well, I completely agree with you, Jay, and I
6 think, Arti, you made this point earlier too, who's got
7 the information about the prior art?

8 It's out there. It's out there in people's back
9 pockets. It's in their laboratory notebooks. It's
10 sitting on the shelf in the experimental side of their
11 lab. It's just out there.

12 And the question is how do we get that
13 information to the mind of a decisionmaker on a question
14 like prior art validity issues. In a patent infringement
15 suit the credible threat of the injunction draws the
16 defendant's attention quite sharply to that matter. I go
17 out of business, or I go find some prior art. That makes
18 me pay attention.

19 We could then ask ourselves whether there are
20 other ways to get that information, and when we try to do
21 it, I'm not sure we come up with any really great
22 answers. Jay, both Jays in fact, have made different
23 proposals about incentives, structures, bounties, things
24 like that to get people to come to the Patent Office to
25 make that decision.

1 In the paper posted on the Web page here I make a
2 different suggestion. The suggestion is why not
3 litigate? If you wait until litigation, the market has
4 told you it's important, because someone is only going to
5 litigate what matters.

6 Now, let's talk about -- that's cost shifting and
7 behavior by patentee -- that's infringers. What about
8 patentees? Well we talked this morning about how hard it
9 is to write a good written description in enablement.
10 We, in fact, can imagine some very rational behavior by
11 patentees to search out and find all pertinent prior art.

12 So now we're talking about patent prosecution
13 costs that are going to be quite high. Instead of the
14 \$25,000 that Jay discussed, maybe it's \$50-. Maybe it's
15 \$100- to write a really, really good patent, a patent
16 with a very rich citation of prior art, a huge 1449 Form,
17 a patent with a really, really good, beefed up written
18 description and enablement disclosure.

19 Patentees who manifest that kind of willingness
20 to pay that kind of big positive price are folks who tend
21 to be economic actors, which gets us to then shift -- so
22 how hard is it going to be to bargain with them?

23 We talked about transaction costs. We talked
24 about hold-out problems. We talked about all sorts of
25 reasons why bargains won't clear. But we know that the

1 people who are best at clearing bargains -- no one's
2 perfect. No one does no cost. But the people who are
3 best at it are the people who are economic actors, the
4 people who signal to the world up front: it's worth a
5 lot to me to get this patent; I'm paying big bucks for
6 it. And people on the other side who say it's worth a
7 lot to me to deal with this issue, invalidity.

8 So now we've got two folks at the table who have
9 shown each other, hey, I'm really willing to spend a lot
10 of money. I'm really willing to think about this issue
11 in a meaningful way. And we are private parties who can
12 get access to this information.

13 Well, the old Calabresi/Melamed test on whether
14 we should have property rule or a liability rule says, if
15 private parties have that information, property rule
16 treatment is just fine, because property rule treatment
17 forces private parties to come together and negotiate
18 with each other.

19 Liability rule treatment forces them to come to
20 courts. An alternative that we see here, and this is why
21 it's good that the Justice Department is here today, is
22 they can go to the Justice Department. They say,
23 actually, there's a misuse problem. Please approach this
24 as a misuse issue. Please look at this as an antitrust
25 problem.

1 Instead of coming together under -- where they're
2 forced to come together under a strong property regime,
3 they go other places. If they're the ones who have the
4 information, why not put them together? Maybe it's not
5 such a bad idea, and maybe they'll be able to clear those
6 transactions just fine.

7 We also want to then think a little bit about how
8 we're going to do this system. The Federal Circuit has a
9 couple of innovations. It turns out it's a court that
10 has gone quite far in using Rule 11 sanctions against
11 patentees.

12 The Judin case is a stark example. You sue me
13 for infringement. You have no idea whether I infringe.
14 That's a problem. Rule 11 sanctions. You pay me. Your
15 lawyer pays me. Your appellate lawyer pays me. That's
16 the result in Judin. That's not insignificant. Judin
17 was a case about infringement. Maybe we could do the
18 same thing with validity.

19 Cellpro is a case about opinions of counsel in
20 part. Again, the Federal Circuit educates us. What's a
21 good opinion of counsel?

22 Cellpro, big sanction case because there's a bad
23 opinion of counsel, but we learned from that. So maybe
24 what we do is the following: maybe we require patentees
25 to actually have a meaningful view of the validity of

1 their own patent before they go to court.

2 A reform then could be to decrease or eliminate
3 the presumption of validity, allow litigation, and then
4 look back at the patentee's portfolio and ask her, when
5 you came to court and you sued me for infringement, had
6 you become educated about any facts related to validity?

7 And, of course, who's going to educate the
8 patentee? It's the infringer. So during the pre-filing
9 of the lawsuit interactions between the parties or early
10 on in the case, because remember, Rule 11 attaches to
11 each filing throughout litigation, you've got policing.

12 The parties are going to be educating each other
13 just like today patentees educate infringers about the
14 strength of the patent. Under this plan infringers are
15 going to be educating patentees about the strength of the
16 prior art and the weakness of the disclosure.

17 Patentees educate infringers about infringement.
18 Infringers educate patentees about validity. And if
19 either side really doesn't have a good argument supported
20 by a decent written opinion of counsel, they pay the
21 other guy's fees.

22 And only those people who are doing this are the
23 people who actually are spending money and want to spend
24 money, so they're acting more like rational economic
25 actors.

1 No one's perfect. There will be costs to this
2 system. The biggest cost, of course, is litigation, and
3 litigation is a big cost. But when we try to ask
4 ourselves how we're going to administer questions like
5 gee, this really is a good patent ex ante, before we have
6 any idea where the technology is going, I think that's a
7 hard question to answer.

8 And, in fact, the uncertainty there, which is
9 often argued as a reason why there are increased
10 transaction costs, because it's hard to evaluate, you
11 have to keep in the mind the following. I'm a patent
12 upstream technology. I have no idea what downstream uses
13 there will be.

14 If other people are interested in doing work --
15 let's assume I have no idea where the big commercial
16 utility is -- I want to license everyone in the room in
17 the hope that they find a commercial utility, because
18 then I get a piece of that pie.

19 So, in fact, breadth upstream might not be such a
20 bad idea as long as the nonobviousness requirement is
21 such that downstream folks can get patents too, then we
22 have to negotiate with each other.

23 There will be costs to those negotiations, but we
24 have to come to the table and talk to each other.
25 Forcing us to do that if we have the information that's

1 important has got to be at least an option to look into.
2 Thanks.

3 MR. COHEN: Thank you, Scott. Let's resume our
4 discussion for the last time, today at least. Let's turn
5 to the issue of information, and recognizing that most
6 procedures at the PTO are handled on an ex parte basis,
7 maybe I'll direct a question at Steve because of your
8 background in many different levels of this.

9 What kinds of evidentiary problems does an
10 examiner face when trying to deal with an application,
11 with the prima facie level and then in responding to the
12 applicant's response to a prima facie case from the
13 examiner?

14 MR. KUNIN: Well, let me start with the issue of
15 prior art. Certainly, I think from the perspective of
16 the current situation, as some of the other panelists
17 have mentioned, that even with the voluntary information
18 disclosure statement that many times what is submitted is
19 not very helpful.

20 In fact, because of cases like In re Portola
21 Packaging it's almost an insulation against re-
22 examination. And because there's no requirement in the
23 existing rules to identify relevancy of, in particular,
24 U.S. patents, then the burden obviously is substantially
25 on the examiner to acquire all the information.

1 Since more and more technology is found in
2 nonpatent literature and foreign patents, and the size of
3 the proverbial haystack that the needle has to be found
4 in is getting larger every day, it is a substantial
5 challenge for examiners to get the closest prior art.

6 I think we do, generally speaking, a very good
7 job in finding patent literature, and I think we're doing
8 a better job all the time in finding nonpatent
9 literature, where the nonpatent literature is readily
10 available.

11 As Jay indicated, sometimes the handbook hidden
12 in the resources of some library only in paper form is
13 more difficult to get at as opposed to a digitized
14 collection that is indexed and is searchable.

15 So first I think the aspect of finding closest
16 prior art is the initial challenge. The second thing is
17 with respect to issues of description and enablement,
18 particularly with respect to enablement, obviously when
19 the examiner is searching the databases, it's of
20 particular benefit to come across nonpatent literature
21 and patent literature that doesn't qualify as prior art
22 to show that something has not yet been accomplished even
23 later in time.

24 So that you can show, for example, that if the
25 literature is skeptical that something will work or is

1 enabled, and you've got a piece of literature that's a
2 year or two after an applicant's filing date, well,
3 certainly that is very useful information if you can get
4 your hands on it to help establish that prima facie case
5 of lack of enablement, let's say for example.

6 And, of course, what is difficult is in certain
7 areas like inherency. The Office has no testing
8 facilities, so therefore it's a very difficult burden to
9 establish that something indeed was inherent. And
10 inherency deals with both the subject of anticipation as
11 well as nonobviousness.

12 Once again I'll pick up on some comments that Jay
13 Thomas was making with respect to what the case law has
14 done with respect to what applicants can submit in terms
15 of rebuttal affidavits or declarations or evidence that
16 normally has to be accepted on its face.

17 And once again, the burden is on the examiner to
18 point out why the statements are not credible, the
19 statements that are made factually, and why that's not
20 persuasive.

21 In fact, a case like *In re Alton* is a good case
22 which basically is one that says -- this came from the
23 court. Basically the court said, examiner, you really
24 have to accept that affidavit or declaration. You can't
25 just not accept it and substitute your own judgment.

1 So those are generally speaking the kinds of
2 evidentiary types of situations that we have from the
3 standpoint of principally an ex parte process that is
4 highly based upon documentary evidence that is readily
5 available.

6 And to a large degree when the going gets tough,
7 certainly the applicant is in the position to have the
8 experts to do the testing, to submit documentary evidence
9 to show why the examiner should allow the case.

10 And, of course, as I said, we don't have
11 laboratories, and we don't have independent experts in
12 that regard. So therefore, we are really compelled to
13 accept some of that, particularly from the standpoint of
14 the fact finding, that is presented to us.

15 MR. COHEN: One of the controls you might have on
16 this process, at least in the prior art area, would be
17 the duty of candor. I'm wondering what the panelists
18 think about whether the duty of candor is set at the
19 proper level. Jay.

20 PROF. THOMAS: I'm not a big fan of augmenting the
21 duty of candor because during my brief experience as a
22 prosecutor for a patent solicitor I found myself just
23 disclosing everything. It was the easiest way to go.

24 A lot of people in law firms are segregated by
25 particular technical area of expertise. And you discover

1 you suddenly have hundreds of documents at your disposal.
2 And it's simply easier and less time-consuming to have
3 them all photocopied and ship them off.

4 I think you would be surprised if you speak to
5 examiners just how many documents they get, how little
6 time they have to parse through them.

7 MR. COHEN: Any other views?

8 MR. PARKHURST: I had two or three points. I
9 think the level of the duty of candor is about right.
10 But I think the PTO and maybe the profession at large
11 could do more jawboning on how it's executed.

12 I think we might well consider more emphasis upon
13 the need to carry out the Rule 97, 99 suggestions of
14 demonstrating distinguishing features over the closest
15 references even though you're presenting them in the
16 English language, whether or not they're in the English
17 language.

18 The second thing is Jay mentioned this morning
19 the problem, particularly in the so-called business
20 method patents area, that the applicant himself or those
21 he knows of may have been carrying out the very same
22 business functions manually or by long-standing other
23 techniques, telephone, in part, for example.

24 I think, particularly in that area where the
25 Office does not have an existing body of prior art and

1 where indeed there may not be in large measure documented
2 prior art, there should be a real push on the applicants
3 to disclose how they were previously doing this procedure
4 if they were doing it in part manually, for example, and
5 how their competitors were previously doing this
6 procedure.

7 I think his comment was pretty accurate that many
8 of these functions that we now find being filed as
9 business method patents were at least in part carried out
10 in the past by businesses, by whatever means were then
11 available.

12 And those functions have now been adapted to the
13 convenience of all-purpose computers, and in some way
14 there ought to be a bigger onus on the applicants to come
15 forward with what is genuine prior art material. So just
16 a couple of thoughts.

17 MR. COHEN: Scott and then Jay.

18 PROF. KIEFF: I guess just briefly I think this
19 actually dovetails in again with the notion that
20 patentees have a very, very strong incentive to
21 self-discipline.

22 I think, Salem, you discussed earlier the notion
23 of kind of getting patents on the cheap and then
24 asserting them. And I think that if you get patents on
25 the cheap and you assert them, and you're fighting

1 somebody who's actually able to fight, the answer is your
2 patent's invalid. And we see that time and time again.

3 In fact, in the areas -- if anything is discussed
4 today people seem overly critical of the Federal
5 Circuit's holding invalid claims. But it's certainly not
6 -- Amgen, Fiers, Lilly and Enzo are not examples of
7 patents prosecuted on the cheap and being enforced
8 successfully. They're examples of patents that did not
9 have adequate attention put to them and ultimately died
10 in court.

11 So the duty of candor in a sense may be redundant
12 if the incentive to, quote, get the scope right is
13 sharply enough experienced by the patentee herself during
14 prosecution and during litigation.

15 MR. COHEN: Well, let me ask you about that. What
16 about the setting where the patentee has multiple claims,
17 and one may be overstated, but they have a fallback
18 position which protects them? In that setting does this
19 self-incentive to get it right still operate?

20 PROF. KIEFF: It seems to me, and I think the
21 Patent Office folks see this a lot, applicants file
22 multiply overlapping, partially overlapping, completely
23 separate claims.

24 And I think, Jay, you're exactly right. They're
25 going to do it either through continuation practice or

1 they'll simply file multiple applications. But again,
2 the more applicants are willing to do that in the end
3 they're still going to get tested on validity in the
4 infringement case.

5 And if that's a patent that actually meets all
6 the standards for patentability, then what's wrong with
7 allowing claims on it? Sure, it's a broad set of claims,
8 but that's purely an allocative -- that's purely a
9 distributional problem between infringers and patentees.
10 That's not an allocative problem of resources getting to
11 the right folks.

12 People who want to practice those inventions even
13 if very, very broad because one claims falls but another
14 one survives, they'll call up the patentee and negotiate
15 a license.

16 But it's not clear that that's anything but a
17 battle over the same turf between plaintiff and
18 defendant. It's not a social loss problem.

19 MR. COHEN: Let me try Jay who had his up first.

20 PROF. KESAN: A couple of points. First,
21 regarding the duty of candor on the disclosures, Jay is
22 exactly right. You just simply -- and I must admit I did
23 plenty of that when I was in private practice as well --
24 throw everything over the fence and hey, your patent is
25 bulletproof with respect to that. That's the system we

1 have today, and that is the problem.

2 The problem is that there is no way to sort out
3 the relevancy of the prior art. There's no requirement
4 to sort out the relevancy and to meet the issue of
5 whether this prior art has anything to do with my claims
6 that I'm filing. Instead, I just simply take every piece
7 of prior art and toss it over the fence.

8 The patentee's in the best position to do that.
9 And they should be forced to do that. The second thing
10 is -- or at least an incentive should be created to do
11 that.

12 The second thing is this again follows up on
13 Jay's point and I agree with him. The problem here is
14 that it's attorneys who do it. And that is also another
15 problem. In other words, when you talk about ideas,
16 people never go back to the inventors.

17 I can tell you I have five patents of my own, and
18 my patent attorney never asks for any prior art. It's
19 exactly as Jay Thomas described it which is, hey, I've
20 got my biotech group or I've got my computer group and
21 they've got all the prior art. And it's not true. They
22 don't have all the prior art.

23 It's the patentee who needs to be asked the
24 question of what is the relevant prior art. And he knows
25 he's got this little folder, most probably, where he's

1 got the most relevant five references with respect to the
2 claims. And that's really the critical issue that we're
3 talking about.

4 So the duty of candor is fine. It's just that
5 the relevancy is something that you can't do. You can't
6 simply have the 200 references all be relevant equally.
7 There are some that are more important than others. And
8 the Patent Office should know that.

9 The second point, as far as the fixing it purely
10 on litigation goes, there is a lot of empirical work that
11 is coming out that suggests that just simply invalidation
12 through litigation is not a very good alternative all by
13 itself.

14 I want to point you to at least a couple of
15 things on the record, and one place where I did see a lot
16 of reference to that is in Josh Lerner's statement to the
17 FTC, where basically there are about two or three points
18 that are closely related.

19 The first thing is it's increasingly clear that
20 although the number of full-blown patent trials have not
21 increased for a long time, the number of complaints that
22 are filed have increased a lot.

23 And it's become very clear that patentees are
24 filing these lawsuits purely for the purpose of forcing a
25 settlement. That's it. They have no intention of

1 litigating the whole thing to trial. They're perfectly
2 happy to get a low-cost license and buzz out of there and
3 simply don't care, because they know that once they get
4 one low-cost license, then they can get the entire
5 industry will just fall back in line for the same terms.

6 So, for example, last year I think there were
7 about 1700 complaints filed and only 75 full-blown
8 trials. The vast majority of the cases settled. So
9 because of the huge disparity between litigation costs
10 and patent procurement costs there's tremendous room to
11 just simply settle it.

12 And I think that is something we really do need a
13 low-cost or reasonable cost alternative to simply burst
14 these wrongfully granted patent claims.

15 MR. COHEN: Suzanne.

16 PROF. SCOTCHMER: I just thought it would be
17 useful to clarify the distinction in social costs and
18 benefits that as we were discussing them this morning and
19 as we are discussing them now in the context of
20 procedural issues.

21 If I understand our discussion about procedural
22 issues this afternoon, the kinds of social costs and
23 benefits that concern us are those that have to do with
24 the social waste of litigation and so on.

25 But that's a different set of social costs and

1 benefits than those that arise from the substantive
2 aspects of patent law, which go to the distribution of
3 profit between, for example, early inventors and later
4 inventors or indeed the distribution of benefits between
5 inventors and users of intellectual property.

6 The reason I raise it is that when we ask the
7 question, for example, do we care about the distribution,
8 as you put it, of profit between a right holder and a
9 potential infringer or alleged infringer, and we say
10 that's merely a distributional issue, indeed it may be
11 true from an ex post procedural social cost of litigation
12 point of view that it is, quote, merely, unquote, a
13 distributional issue.

14 But from an ex ante point of view, from the point
15 of view of the very heart of the patent system which goes
16 to the incentives to create inventions, it is not only
17 not subordinate, it is the very essence of the question.

18 MR. COHEN: Jay.

19 PROF. THOMAS: Yes. I would certainly agree that
20 the Coase Theorem and its progeny don't work often so
21 well in this arena. That's quite so. I would also say,
22 and my experience is largely in this town and the patent
23 community here. I'm not sure that's representative of
24 elite law firms elsewhere. But my sense is that there
25 are very few people who want to obtain gold-plated

1 patents, and in fact companies send firms out on very
2 strict budgets.

3 I've been to an office of a very large firm, and
4 the officer had a sign on his wall saying we do not spend
5 more than \$5,000 per application on outsourcing patent
6 work. I've heard of people who dictate these things
7 while they iron in the morning to try to increase the
8 quantity.

9 In very extensive patent portfolios I've been
10 involved in cases where large companies have gone to
11 small ones and said, I've got 200 patents that cover your
12 neck of the woods. Well, which ones do I infringe? "You
13 figure it out," was the literal answer. Companies boast
14 of the number of patents that they obtain.

15 So it's possible and it might be quite right that
16 you get what you pay for. But that's just not my
17 experience. And I can see that line of reasoning. I
18 personally haven't experienced it. I have just seen
19 really the rush is, almost a degree of economic
20 pollution. Let's get as many as we can as quickly as we
21 can.

22 And Mr. Parkhurst, I think you're quite right
23 about can we get applicants to disclose more. I think
24 the key tool that the PTO has now is Rule 105 on this
25 point. But I would observe that the PTO does not often

1 use Rule 105. It's supposed to have codified earlier
2 authorities.

3 MR. COHEN: For us antitrust people, please
4 translate.

5 PROF. THOMAS: Rule 105 was brought into the
6 Patent Office rules along with the American Inventors
7 Protection Act, although it was not spawned by it. It's
8 called Requirements for Information, and it allows
9 examiners to query applicants, and they are supposed to
10 respond with information.

11 A response that the information is unavailable or
12 not conveniently available -- is that perhaps the
13 language -- is considered a complete response and would
14 allow basic questions such as, how did you develop this
15 invention? That's one of the things that I think is
16 listed in the MPEP.

17 The difficulty, I think, is that it's very
18 difficult to draft these requirements. It's on the
19 examiners amendment docket, and it leads to patent term
20 adjustment, which is a problem the PTO wisely wants to
21 avoid.

22 It has principally been used with regard to the
23 bizarre plant patent case of ex parte Thompson, which is
24 just now raising a fuss. And that's another line of
25 inquiry.

1 So I think the PTO has the means at its disposal
2 to do it, although I think we might want to revisit under
3 Rule 105 whether "I don't know" or "It's inconvenient to
4 me" ought to count as a complete answer. And if
5 examiners can be incented to use it. Thank you.

6 MR. COHEN: Let's take Arti and then Salem, and
7 then we'll move to re-examination. We'll get everybody
8 in at least once on this round. Arti.

9 PROF. RAI: Just a quick point, a plea, I suppose
10 for some empirical work. Basically, the problem that we
11 are facing, and Mark Lemley has tried to take a stab at
12 this in his Northwestern article on Rational Ignorance at
13 the Patent Office, is we don't really know what the
14 social costs of bad patents are because we don't know how
15 they're used.

16 We know how much litigation there is. We may
17 know how many complaints are filed, but we don't know
18 short of that how patents are actually used. We don't
19 know what percentage are licensed, what sorts of behavior
20 they induce in terms of people not going into certain
21 areas of innovation because of the presence of patents,
22 and so forth.

23 And another area we don't have much or any
24 empirical purchase on, which is critical, is determining,
25 if we were to implement some of these procedures, some

1 sense of what percentage of bad patents would actually be
2 eliminated as a consequence of these procedures.

3 So I think it's really important to sort of --
4 here the percentages really do matter because it's all a
5 question of the marginal costs -- reducing the marginal
6 social costs while increasing -- at a cost to the Patent
7 Office that's not too high.

8 MR. COHEN: Salem.

9 MR. KATSH: Well, this brings me back to the point
10 I made earlier about my questioning whether tinkering in
11 the system is going to work.

12 I think that in the real world, if there is such
13 a thing, the problem is predictability. Now, whether one
14 says it was right or not, prior to the Federal Circuit we
15 know that whatever, 60, 70 percent of patents were
16 invalidated. Post Federal Circuit just the opposite.

17 Now, Jay is pointing out the problem of
18 wrongfully granted patent claims. But wrongfully granted
19 patent claims in a system that upholds 60 to 70 percent
20 of the claims litigated in litigation is going to spawn
21 ever-increasing applications, ever-increasing demands on
22 the PTO and is going to stretch the resources beyond the
23 breaking point. I mean there is no free lunch.

24 We are either going to have to establish claim
25 construction rules, guidelines for obviousness,

1 guidelines for equivalents, if any, and reduce the number
2 and encourage companies to invest in patents that they
3 write.

4 When I said that somebody can get a patent on the
5 cheap, I was referring to what John Thomas is talking
6 about. Companies -- it's not that they wouldn't want a
7 gilt-plated patent. They would love to have one. But
8 they have no idea what's going to be issued. They have
9 no idea what's going to be relevant. They have no idea
10 what's going to be needed. Not no idea but they have to
11 sweep broadly to protect themselves against the fact that
12 other companies are filing hundreds if not thousands of
13 applications.

14 And when you file hundreds if not thousands of
15 applications you can't spend \$100- to \$200,000 per
16 application.

17 So this system is sort of snowballing on itself
18 to create more patents with less resources put into their
19 preparation, creating more of a problem in terms of
20 inexperienced or marginally experienced examiners with a
21 presumption of validity that goes into the process, with
22 a presumption of validity that comes out of the process
23 and with a court system that now is inclined to uphold a
24 great majority of the patents.

25 Predictability, therefore, is on the side of

1 value. And I don't agree with Scott that the fact that
2 you can lose a case like Lilly or others or even get Rule
3 11 sanctions in some cases is going to be a deterrent.

4 Courts, in my experience -- I mean the conduct
5 they let you get away with is astonishing. And Rule 11
6 is not going to be the answer. And I'll bet you, if I
7 asked you, Scott, whether you could have -- how sure you
8 were about the results in those cases you mentioned
9 before they were decided -- whether you would have said,
10 there's no chance of success.

11 PROF. KIEFF: But that's why it's under the reform
12 section of the paper, which is to say maybe we should
13 take those things seriously.

14 MR. KATSH: But those cases were not predictable
15 before they were decided. People lose cases all the
16 time. They get reversed all the time.

17 So just my final point would be that you pointed
18 out earlier, when I was talking about Graham, some very
19 interesting history to the opinion. I was really talking
20 though about Hotchkiss, and if you look at the Hotchkiss
21 case, my understanding is that that case involved a
22 patent for the substitution of ceramic or metal for
23 wooden door knobs. And that was held unpatentable.

24 Now, how many thousands of patents are issued for
25 creating old products with new and unobvious materials

1 with better functioning and better cost efficiency?

2 And if Graham said follow Hotchkiss, and if the
3 circuit courts of appeals, putting the forum shopping
4 issue to one side, because that was really dealt with in
5 Blonder Tongue, if they were all following Hotchkiss, and
6 you had a 70 percent reversal rate, that was sending a
7 signal to the PTO that, as the court said, there was a
8 notorious disparity in standards.

9 So it was then a move to fund the PTO to make the
10 effort so the courts would not invalidate. That
11 incentive is diminished when you have the courts
12 basically upholding what Jay is calling wrongfully
13 granted patent claims. Not wrongfully granted unless the
14 courts says they are.

15 MR. COHEN: Let's move for a little while now to
16 re-examination. We've been told in the hearings that the
17 re-examination process deals with novelty and
18 nonobviousness, but not with enablement, description and
19 utility. And that even when treating issues of prior art
20 it addresses only prior art not previously considered.
21 Given these limitations, does anybody have any thoughts
22 as to whether the scope of re-examination is sufficient?
23 Mark.

24 PROF. JANIS: Yes. I do have thoughts and, no,
25 it's not. But I do think we need to step back and ask

1 some very hard questions about what it is that we really
2 want out of such a procedure.

3 And I think my study of the history of the re-
4 exam statute and the proposals that preceded it suggest
5 to me that no one really came to a consensus on that. Is
6 it really some sort of very limited error correction
7 mechanism, or is it really a serious effort to create an
8 administrative alternative to litigation?

9 Now, those are not -- those are extremes out of
10 spectrum. I suppose you could have elements of both in a
11 given procedure, but I take from the many factors,
12 including the fact that this procedure is called a
13 re-examination not opposition, that in the beginning it
14 was skewed toward a model of error correction, a very
15 limited model of correcting an error. You have to show
16 an error to get into re-examination basically,
17 substantial new question of patentability.

18 So it shouldn't surprise us that when we look at
19 it today and say is this procedure an adequate
20 alternative to litigation the answer is no, that there
21 are all these limitations.

22 And this is an area where tinkering is simply not
23 going to work. And the latest round of legislation
24 proves that amply because we never did get back to the
25 question of what we really wanted.

1 Instead, we took this re-examination procedure
2 and said, we'll tinker with it. We'll make some small
3 efforts to enhance third party participation and call it
4 inter partes, but then we'll take a lot away in estoppel
5 provisions. And then we'll say to the world now we have
6 this great administrative alternative to litigation.

7 And so it's just not surprising that that's not
8 what we have. So those types of discussions really need
9 to occur. And you can see the kinds of alternatives that
10 are going to arise from those discussions.

11 You're going to have Jay Kesan saying, no, no.
12 It needs to be pre-grant opposition. You'll have me
13 saying it needs to be a full-fledged, post-grant
14 opposition. You'll have others saying we shouldn't have
15 any administrative proceeding. It's more efficient to
16 let it all go to litigation. And that's the sort of
17 discussion that we need to have.

18 I think we ought to end up in the middle, with a
19 post-grant opposition scheme that does have a broader
20 substantive base and allows people to come in and make
21 challenges based not only on documentary prior art, but
22 on enablement, on other patentability issues.

23 MR. COHEN: What about the issues of estoppel and
24 ability to appeal?

25 PROF. JANIS: If you create a system where the

1 options per challenge are severely limited like the
2 current system and then you lay on top of that serious
3 estoppel provisions, I don't think anybody is going to
4 use that system.

5 It's bad enough that there is not a long record
6 of re-examination. People don't have the sort of
7 reassurance that it's going to be conducted and that
8 they're going to get good results out of it.

9 When I was using it, I just was always a little
10 uncomfortable. I just never quite knew whether I was
11 going to get good justice out of that procedure. So it's
12 bad enough even without the estoppel. But when you add
13 the estoppel in, people aren't going to use it.

14 Now, if you make this the mirror image of
15 validity challenges in litigation, then perhaps talking
16 about estoppel is more reasonable. But the estoppel
17 provisions as they stand in the current scheme, I think,
18 among other factors, make it just almost completely
19 unworkable or certainly just so unattractive that it's
20 hard to see counseling people to engage in it.

21 MR. COHEN: Roger.

22 MR. PARKHURST: Well, a number of points. The
23 existing system is obviously inadequate. Steve's
24 statistic about three inter partes re-exams under the
25 1999 Act. And I think if the AIPLA executive director,

1 Mike Kirk, was here, he could tell you in excruciating
2 detail that that statute is the result of practical
3 politics in the Congress these days.

4 And that's an issue that we haven't talked about
5 here in any of these points. But it would be an overlay
6 over any thought of radically modifying the patent law.

7 But talking about re-exam in particular and the
8 estoppel point, it would seem that if we could get a
9 re-examination procedure that would just simply open it
10 up to all attacks, then you could have an estoppel that
11 looks like res judicata or collateral estoppel in the
12 courts, and you would have a system that would invite
13 those with economic interest to attack those patents that
14 are of economic significance.

15 You would probably have a greatly increased use
16 of that system, and you would have a focus on those
17 patents that are really of interest economically. So I
18 would think that that's a good goal. How long it takes
19 us to get to that goal is a big question.

20 Meanwhile, this, like the issue we just discussed
21 of how to get the best prior art before examiners, brings
22 us back to the need to urge Congress to give the Patent
23 Office access to all the fees it collects to try to
24 create the quality patents that we'd all like to have, so
25 that we have the kind of certainty that Salem's clients

1 are talking about.

2 And part of that certainty is reducing pendency,
3 so that you have some certainty of what it is that your
4 competitor is getting out of his application even though
5 today it's published.

6 MR. COHEN: Jay.

7 PROF. KESAN: Just a couple of things to add onto
8 what Mark said. First I want to mention one piece of
9 work by Dietmar Harhoff, where he has done some studies
10 on oppositions in Germany. And he shows that surviving
11 an opposition is one of the very best predictors of
12 patent value, in other words how valuable a patent is.
13 If you want a signal that I do have this great patent,
14 then surviving an opposition is one of the very best
15 measures of it.

16 And I think that is very valuable, because it
17 really shows that when you have other people weigh in on
18 the process and you still end up with a patent, that
19 sends a clear signal to the marketplace. I mean, this is
20 not just some paper claims, et cetera. There's some real
21 economic value associated with this. People have tried
22 to take this down and did not succeed, and I really have
23 something here.

24 And the earlier on in the process that we can
25 actually have that kind of a market mechanism that points

1 to real value is, of course, a very good thing for the
2 patentee, and it makes complete economic sense.

3 The only other similar predictor that I have seen
4 is in payment of maintenance fees as being another very
5 good indication of patent value. In other words, the
6 patents that do get reviewed are the ones that really do
7 have value, since you have maintenance fees at three-and-
8 a-half, seven-and-a-half and eleven-and-a-half years.

9 In talking about deciding whether the oppositions
10 should they be -- I completely agree with Mark that we
11 need a full-blown system, and any way to sort of hamper
12 the system with estoppals, et cetera, doesn't make sense.

13 But in terms of thinking about the opposition
14 system as to whether it should be pre-grant or post-
15 grant, I again want to draw your attention to data that I
16 have published and that Bronwyn Hall has published.

17 Hers is, I think, a working paper looking at pre-
18 grant and post-grant opposition data in Japan and in
19 Germany. And what you see in Japan they switched from a
20 pre-grant to a post-grant in 1994. In Germany they
21 switched from a pre-grant to a post-grant in the EPO in
22 1980.

23 And what you see is that there was a vigorous
24 opposition practice in the pre-grant years. Now, some of
25 it might have been due to delay and harassment. That's

1 certainly possible. But there was a vigorous opposition
2 practice, and it has dropped off substantially when they
3 moved to a post-grant system.

4 At the same time, the number of invalidation
5 trials and nullity proceedings and so on have increased
6 dramatically. So in other words once you go to -- when
7 they moved to a post-grant system, people automatically
8 started favoring the courts as opposed to going to the
9 patent office.

10 And I think that's something to really keep in
11 mind, and it goes directly to the issue of -- what really
12 struck me when I did this qualitative interviews in Japan
13 was when I started realizing that we really do have a
14 serious post-decisional cognitive dissonance problem,
15 where basically what you have is examiners and the
16 examination boards and the reform boards are willing to
17 change the scope of the claims once the patent issues,
18 but they are not willing to revoke or invalidate claims
19 entirely.

20 In other words, the tendency is to say, well, I
21 was right all along. Maybe I just need to simply narrow
22 the scope of the claim. I'm committed to an outcome, and
23 I think I was right all along. And I'm not going to
24 change from the outcome. I'm merely going to narrow the
25 scope of the claims.

1 That serves as a tremendous disincentive to the
2 parties. The parties feel like, well, I'm not going to
3 get a fair shot here. I mean, the patent office has
4 spoken. They have taken a decision that the patent is
5 anyway going to get allowed, and I'm going to take my
6 chances at another forum, the courts. I think it's
7 something to keep in mind.

8 MR. COHEN: Let's try Steve and then move to our
9 final topic area.

10 MR. KUNIN: I'll be brief. Jay and I have debated
11 this issue many times, but basically I would point out
12 that for all the practical reasons we probably will get
13 to where we want to be either by fixing re-exam or having
14 a post-grant review system put in place, as opposed to
15 pre-grant opposition.

16 We fought the Japanese very hard to eliminate
17 their system because of Keiretsu and the problem with
18 respect to the specific way to deny foreigners patents
19 that occurred, I think, as a result of that practice.

20 The situation with respect to would Congress have
21 an appetite to do so? The American Inventors Protection
22 Act specifically precludes it. It says, in the law,
23 there shall not be any basis for pre-grant opposition or
24 protest as a result of publication of an application.

25 The situation I think from the standpoint of pre-

1 grant which hasn't been mentioned is in the United States
2 we have patent term adjustment. If you are worried about
3 submarine patents, how about 28-year patents or 30-year
4 patents or whatever it would be if you didn't take into
5 account the fact that right now in the law if you impose
6 all of these delays for whatever purpose -- it could be
7 appeal interference or administrative delay -- you get
8 day-for-day term adjustment?

9 So I think it's just not conceivable, with
10 respect to the regime on term adjustment, to even
11 consider pre-grant opposition. I think there's many ways
12 -- different examiner, proceedings conducted by a panel
13 of administrative patent judges -- there's ways by which
14 you can, I think, reduce or eliminate some of those
15 perceptions that Jay was mentioning in terms of why pre-
16 grant is superior to post-grant.

17 So I think that from the perspective of where do
18 we get there from here, I would say that despite the
19 arguments that have been made for having pre-grant in the
20 United States, I just don't think it's going to happen.

21 MR. COHEN: Okay. I'd like to get us to wrap up,
22 say within 15 minutes, but before we do that, there's one
23 more topic area. It has floated throughout our
24 discussions. I'd like to focus on it directly. And
25 that's the handling of uncertainty.

1 And I think we've heard that there can be
2 uncertainty as to the presence of patents or patent
3 applications. That's one area. Separate from that may
4 be uncertainty with regard to patent validity or breadth.

5 Let's look at the first one. We now have an 18-
6 month disclosure rule, for many patents at least. I'm
7 wondering what has been the experience with this? Is it
8 working out? Will it work differently in different
9 industries?

10 We heard, I think, in our biotech panel that 18
11 months can be an eternity there. Anybody who would like
12 to contribute on the new disclosure rule?

13 PROF. THOMAS: I'll mention very briefly, the new
14 disclosure rule does nothing because it simply discloses
15 what was already available from foreign patent offices.
16 It really doesn't add anything to what the U.S. industry
17 is doing.

18 It saves a translation fee on occasion, but the
19 18-month publication -- there really have been no changes
20 other than that there's an extra fee charged at the PTO.

21 And that's why I think the PTO should implement
22 this just by ripping pages out of the European Patent
23 Office and sticking it in there is just to save everybody
24 the money. It's not the fault of the PTO. That's the
25 legislative deal they were handed.

1 MR. COHEN: Any other thoughts on the 18-month
2 disclosure rule, or do we take that as the view of the
3 panel? Jay?

4 PROF. KESAN: No. I think it actually does serve
5 some benefit, and that is that you do have, in fact,
6 disclosure. People are put on notice, and to that extent
7 you have the reduction on various sorts of social costs.
8 I mean, clearly it's --

9 PROF. THOMAS: I agree with all that. It's just
10 there are no -- it only publishes applications that would
11 have been published anyway. There's nothing additional
12 added by the American Inventors Protection Act.

13 MR. COHEN: Salem.

14 MR. KATSH: One quick point. As long as there's
15 the potential for continuations, divisionals that are not
16 going to be published until their 18 months are up,
17 you're still dealing with an unknown period of
18 uncertainty as to what additional claims are going to be
19 sought. So it does give the industry some knowledge of
20 what's out there, but not complete knowledge.

21 MR. COHEN: How about turning for our final focus
22 to uncertainty with regard to patent validity and
23 breadth. I'm wondering if any of you have views as to
24 whether there are differences from industry to industry
25 in the predictability of infringement determinations.

1 We've heard a lot that things are different for
2 various aspects of the patenting process, industry to
3 industry. What about for the infringement predictions?
4 Scott.

5 PROF. KIEFF: Just a couple of thoughts. I'm
6 sorry Suzanne left, but I completely agree with her that
7 we have to do the dynamic analysis, the multiple cycle
8 analysis on these things.

9 But, if anything, that takes us back, on this
10 uncertainty problem this takes us back to well, what kind
11 of scope do we want to give whatever patent is upstream
12 that's going to be uncertainty to issued patents and what
13 certainty do we want to give downstream to people who
14 want to do inventing?

15 And if we have a nonobviousness requirement
16 that's actually lower rather than higher, whatever that
17 means, at least for the concerns she just expressed, the
18 downstream inventor gets a piece of the pie too. She's
19 got an incentive to do downstream inventing. So that can
20 play out.

21 But if we start to say, hey, listen, if you're in
22 a downstream/upstream position, somehow there are
23 different rules on validity for either you or the
24 upstream guy, I think that's a big form of the
25 uncertainty. And that plays out in this area because

1 people will go to the Justice Department or here, and
2 they'll argue misuse or antitrust problems that have to
3 do with breadth. That is a cloud of uncertainty.

4 So uncertainty issues -- the shortest answer on
5 uncertainty is this hearing creates a massive uncertainty
6 on the system. And that's not irrelevant. And the more
7 we make liability rule treatment, in fact, the more we
8 have multiple cycle problems, because you'll squeeze out
9 more efficiency in whatever cycle you're presently in,
10 absolutely, just like under an efficient breach analysis
11 in contract law, you'll get the stuff to the higher value
12 use in that cycle of the game, but you won't get future
13 cycles. In multiple cycle games, squeezing out the added
14 efficiency in one cycle will have the effect of deterring
15 players from playing future cycles.

16 And that is exactly, I think, a problem and
17 that's a problem -- I'm sorry Suzanne left because I
18 actually think it cuts the other way on all of these
19 issues.

20 MR. COHEN: Arti.

21 PROF. RAI: I'm not sure I understand this
22 multiple cycle sort of argument, but the point that I was
23 going to raise was that I think that at least in biotech,
24 which is the industry with which I'm familiar, the
25 conventional wisdom seems to be that the Federal Circuit

1 has created tremendous uncertainty. And so it's not
2 clear that any changes would make that worse.

3 So again, I mean, I think that there's a great
4 deal that could be done to create more certainty. I
5 think certainty is a valuable thing to have. And in
6 particular I think that some of the reforms along the
7 lines suggested by the Jays with respect to -- and Mark -
8 - with respect to getting certainty at the administrative
9 level will really help all industries out.

10 MR. COHEN: Jay.

11 PROF. KESAN: Just a couple of things. One is, of
12 course, two points related to uncertainty. One is that
13 having an administrative proceeding like that would
14 actually reduce some of the uncertainty, because now you
15 really know you have a valuable patent.

16 The second thing actually goes back to a point
17 that Scott made very briefly in the morning. And that is
18 I think a large part of the uncertainty in private
19 practice really comes about because there is so much
20 difficulty in -- if you are a competitor -- in
21 understanding the scope of the patent just by looking at
22 the claims that's largely brought about by the Doctrine
23 of Equivalents.

24 And I think my own view on that is that this game
25 of having a Doctrine of Equivalents and then trying to

1 limit it with all sorts of -- rein it in, you have it but
2 rein it in -- is something that I think is well worth
3 rethinking.

4 I think the dissents in the Hilton Davis case at
5 the Federal Circuit level make some very, very powerful
6 arguments that the Doctrine of Equivalents doesn't do
7 very much, and it's perfectly okay to put the burden on
8 the patentee to have claims at the outset.

9 He's the person who is best in the know, so why
10 not do a darn good job, and if you have made a mistake
11 you've got two years to fix it in the reissue. You've
12 got time to fix things. And I think a lot of the
13 uncertainty on patent scope would be eliminated if we
14 didn't have this whole equivalents issue.

15 MR. COHEN: Mark.

16 PROF. JANIS: I'm just going to be a pessimist on
17 this issue. I think certainty is awfully elusive in
18 patent law, and I think it just springs in part from the
19 complexity of the document and the use of claims.

20 If we took away the Doctrine of Equivalents, we'd
21 have a lot of people making a lot of fancy arguments
22 about literal infringement and claim construction. And
23 we'd say, gosh, this is all very uncertain. And I think
24 that's true of obviousness. I think it's true of
25 enablement.

1 I think those are inherently complicated legal
2 inquiries, but they all relate back to claims and the
3 complexity of claims. So I'm a little worried. I don't
4 buy into some of the certainty rationales that the
5 Federal Circuit parades before us, because I think that
6 the rules that they create and rationalize on the basis
7 of certainty often just shift the uncertainty elsewhere.
8 I think I probably said that earlier in the hearing.

9 So I don't want to be too much of a pessimist,
10 but I do want to sound a cautionary note that we not buy
11 into the certainty rationale wholesale, that we just
12 recognize that there may only be so far we can go.

13 MR. COHEN: Arti.

14 PROF. RAI: One point I forgot to make, not to
15 double dip, and that is sort of one of my pet peeves
16 about the Federal Circuit, which I think Salem has
17 brought up several times, is that it's essentially acting
18 in many situations as a trial court. It revisits all
19 sorts of issues that are fact-based.

20 And that creates tremendous uncertainty because
21 you just have to wait until the appellate court decides
22 the issue before you know what the outcome is, which is
23 not the way that our rules of civil procedure is supposed
24 to work and for good, sort of economic efficiency,
25 reasons.

1 MR. COHEN: Well, we're late in the day. We want
2 to wrap up, but I want to give each of you an
3 opportunity, before we leave -- if there's anything on
4 any of the subject areas that we have tried to cover
5 today that you never got your chance to make the point
6 that you were dying to make, I'll give you that chance.
7 I see Scott has his sign up.

8 MR. KIEFF: Well, yeah. I mean, I think that to
9 follow up on a point that Arti made, I completely agree
10 with you, Arti, that lots of things in life are empirical
11 questions. And I completely agree with you that data is
12 always better than no data.

13 But our understanding of the way things work
14 sometimes gets us to a point where we no longer need
15 data. So, for example, I think we're all going to just
16 take it, and it's not worth litigating the issue, that if
17 I drop the cup it's going to fall, because we have an
18 understanding here at this speed on this planet at this
19 time that gravity is going to operate that way.

20 And the laws of economics have taught us a little
21 bit about transaction costs, and they have taught us that
22 the types of problems explored at length in the
23 literature of transaction costs, bargaining over patents,
24 are transaction costs that are typically associated with
25 markets that are thin.

1 And the economics literature teaches us pretty
2 clearly that a good cure for that anemia is to fatten up
3 the markets. And the more diversity of wealth -- sorry,
4 the more diversity of players and the more quantity of
5 wealth you bring to those markets, the less transaction
6 costs you have on average. That's just one of the things
7 that economic science teaches us as a science.

8 And one of the neat tricks of patents is that
9 they bring to these markets a drastic increase in the
10 number of dollars in the well and a drastic increase in
11 the diversity of players. That is a solution to the
12 transaction cost problem. And we shouldn't overlook that
13 solution.

14 MR. COHEN: Jay.

15 PROF. KESAN: I just wanted to make a point that I
16 talked about earlier with you, that you asked me raise.
17 This relates to the nexus requirement on the objective
18 indicia of nonobviousness. And that is, I think Salem
19 pointed out, that is a huge gateway to get a whole bunch
20 of things in there to fight obviousness.

21 But the real problem that I see in the nexus
22 requirement is that it's a multiple causation problem.
23 And I have looked carefully at these nexus cases, and the
24 real problem is that you can show a link between the
25 inventive activity and commercial success or inventive

1 activity and some other objective indicia.

2 The problem is that there is a whole bunch of
3 other things that could have contributed to it, good
4 marketing, a lock-in as you pointed out, or network
5 externalities, as we call them.

6 And the real need in the nexus requirement is a
7 "but for" requirement. In other words, there should be a
8 requirement that says that but for the inventive
9 activity, the particular commercial success, et cetera,
10 would not have taken place.

11 So when you have a multiple causation problem and
12 you're relying on this to show nonobviousness, you really
13 need to have a "but for" test there which is something --
14 the whole nexus requirement is not well policed, but I
15 think the "but for" requirement is really essential.

16 MR. COHEN: And then I guess Salem will have the
17 last word today.

18 MR. KATSH: Well, I wanted to reference again, I
19 guess, where I started. It troubles me that in all of
20 these studies, in all of the -- whether qualitative or
21 empirical -- there is really no concrete evidence of
22 whether we are all better off with or without this
23 patent system, to what extent it actually provides
24 products and processes faster or that otherwise would not
25 be here.

1 Now, politically, it's a reality. But in the
2 Temporary National Economic Committee hearings in the
3 '30s, there was a colloquy where the chairman of General
4 Motors was asked whether they would have made the same
5 innovation without the patent system, and he said no.
6 And then Edsel Ford, who was then chairman of the Ford
7 Motor Company, was asked the same question, and he said,
8 yeah. Patents wouldn't make a difference.

9 There's studies by Mike Scherer, who found that
10 most of the R&D and business people didn't think it would
11 make a great difference. The people who were most
12 convinced it made a difference were the lawyers.

13 Now, I happen to love the patent system the way
14 it is now. And it's very provocative, and it gives me a
15 lot of work. But it seems to me that given the
16 uncertainty about what it actually does, because it's so
17 hard to measure without a control, there's room for
18 experimentation and creative thinking at least, about
19 some kinds of new approaches.

20 And I saved this for last because I didn't want
21 to get beat up too much, but we could have a ranking
22 system. We could have a system like the Presidential
23 commission we talked about, where people would
24 voluntarily delay examination.

25 We could do a lot of things. We could experiment

1 with different terms for different patents, different
2 standards for different industries. These are concepts
3 that ought to be explored, because it's unclear whether
4 the costs would outweigh the benefits.

5 The whole idea of preserving as absolute the
6 right of exclusivity in all cases, even given the fact
7 that most patents are asserted to lack market power, that
8 poses to me a question of why are we multiplying the
9 number of patents that are being issued.

10 One study in particular I would recommend is that
11 we have just gotten the business method patent
12 legitimized as of 1998. Perhaps that could -- the
13 Commission has a great Bureau of Economics. And there is
14 a control possibility, to look at what the impact of
15 having a business method patent would have been had it
16 been in effect, say, in 1960 and had frequent-flier miles
17 been patented and credit cards have been patented and
18 lots of other things have been patented.

19 If you look back, software patents were not
20 recognized until quite recently. There are areas where
21 you could try to establish, it seems to me, maybe
22 President Levin at Yale is doing this in some part, but
23 we have no guidepost. All we know is that there's a
24 chilling effect out there of having all these patents,
25 whether they're in litigation or not.

1 And it strikes me that there's a lot of work that
2 could be done to try different approaches that would
3 benefit both producers and consumers.

4 MR. COHEN: Thank you. This has been a very
5 interesting, very useful session. I want to thank all of
6 you for your thoughtful comments, for your patience, and
7 for your willingness to help. Thank you.

8 **(Whereupon, the hearing**
9 **concluded at 4:49 p.m.)**

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CERTIFICATE OF REPORTER

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