## Anticompetitive Loyalty Discounts by a Dominant Producer Threatened by Partial Entry

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Conditional Pricing Practices: Economic Analysis and Legal Policy Implications (Joint FTC/DOJ workshop)

> June 23, 2014 Washington, DC

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#### Puzzling (but not unusual) Pricing Scheme

- Customers who buy less than 100 units pay \$10 per unit
- Customers who buy at least 100 units pay \$9 per unit
- Why it is puzzling:
  - Total cost of 99 units is \$990
  - Total cost of 100 units is \$900
  - Why does the seller charge less for more?

## Puzzling, but anticompetitive?

- If it is anticompetitive, does it fit into some other anticompetitive category?
  - Predatory pricing?
  - Exclusive dealing?
  - Tying?
- More generally, if it is anticompetitive, is it exclusionary or collusive?

## Setting

- Incumbent monopolist
- Competition from an entrant that can compete for part but not all its market
- Differentiation within the competitive segment
  - Within the competitive segment, some customers prefer (and are willing to pay a premium for) the entrant's product while others prefer (and are willing to pay a premium for) the incumbent's

#### Numerical Example for this presentation

- All customers get a value of \$100 from the incumbent's product
- Competitive segment is 20% of the market
- In the competitive segment, half the customers prefer the entrant's product while half prefer the incumbent's
  - Maximum premium customers are willing to pay for their preferred brand ranges linearly from \$0 to \$20



## Comparison

#### Simple pricing

- Incumbent charges a constant price per unit that is the same in the monopolized and competitive segments
- Pricing strategies to target price cuts to the competitive segment
  - Segment pricing (different prices for the monopolized and competitive segments)
  - Discounted marginal prices for purchases above a threshold

#### Loyalty discounts

 Discounted average prices conditional on reaching a threshold



## **Results for Simple Pricing**

- Incumbent charges \$100, entrant charges \$80
  - Entrant captures the entire competitive segment
- Incumbent cedes the competitive sector to the entrant because cutting prices to attract customers in the competitive segment results in too big a profit sacrifice in the monopolized segment



## **Results for Segment Pricing**

- Monopolist charges \$100 in the monopolized segment and \$30 in the competitive segment
- Entrant charges \$25
  - Technical aside: the incumbent moves first
- Price in the monopolized sector is the same as with simple pricing but pricing in the competitive segment is lower
- Average price is about \$85.40



#### **Results for Discounted Marginal Price**

- With a threshold of 80%, the monopolist's undiscounted price is \$101.25 and its discounted price is \$20
- Entrant's price is also \$20
- Average price is \$85

## Lesson from Analysis of Segment and Discounted Marginal Prices

- Consumers benefit from pricing structures in which the incumbent can target its discounts to meet a competitive threat
  - Discounts on incremental sales above a threshold are pro-competitive (if they are not predatory)
  - In a multi-product setting, discounts off list for incremental purchases above a threshold for total purchases are procompetitive



## **Result with Loyalty Discount**

- "Discounted" price of \$94.72 condition on purchases of at least 90.4% of the market
- Entrant charges \$95.69
- Points to notice
  - Entrant's share is approximately efficient (and, with different parameter values can even be above the efficient level)
  - Average price is about \$94.80

#### Why the strategy works

- All units discounts confront the entrant with the choice of accepting an allocated share at a relatively high price or having to compete very aggressively to get any incremental share
- Entrant rationally takes the allocated share at the high price
- Anticipating this, the incumbent can also charge a high price

#### **Back to the questions**

- Anticompetitive? Yes
- What category?
  - Predatory pricing? No, price is high, not low
  - Exclusive dealing? Not literally, but it is quantity forcing
  - Tying? Not inaccurate, but not helpful
  - More generally, if it is anticompetitive, is it exclusionary or collusive? More of a facilitating device than exclusionary

# What Sections of What Statutes Does it Violate?

## In Europe, "Abuse of Dominance" would be a good characterization

- The setting in this model presumes a dominant supplier
- A case that rests on this model should require a showing of dominance

## In US,

- Procrustes might be able to fit this theory into either a Sherman Section 1 or Sherman Section 2 bed
- Perhaps it fits within a "gap filling" approach to a (slightly) expanded FTC Act Section 5

