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UNITED STATES FEDERAL TRADE COMMISSION

and

UNITED STATES DEPARTMENT OF JUSTICE

SHERMAN ACT SECTION 2 JOINT HEARING

UNDERSTANDING SINGLE-FIRM BEHAVIOR:

TYING SESSION

WEDNESDAY, NOVEMBER 1, 2006

HELD AT:

UNITED STATES FEDERAL TRADE COMMISSION

HEADQUARTERS BUILDING, ROOM 432

600 PENNSYLVANIA AVENUE, N.W.

WASHINGTON, D.C.

9:00 A.M. TO 1:00 P.M.

1 MODERATORS:

2

MICHAEL SALINGER

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Director, Bureau of Economics

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Federal Trade Commission

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and

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JUNE LEE

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Economist

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Antitrust Division, U.S. Department of Justice

9

10 PANELISTS:

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David Evans

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Robin Cooper Feldman

14

Mark Popofsky

15

Donald J. Russell

16

Michael Waldman

17

Robert D. Willig

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1           MR. SALINGER: It is a very nice place to have a  
2 fire drill on a day like today.

3           Finally, we request that you not make comments  
4 or ask questions during the session. Thank you.

5           We are honored to have assembled a distinguished  
6 panel of practitioners and professors who are well  
7 versed in the issue we will tackle today involving tying  
8 and product design. Our panelists this morning are  
9 Michael Waldman, the Charles H. Dyson Professor of  
10 Management and Professor of Economics at Cornell; David  
11 Evans, who is the managing director of LECG's Global  
12 Competition Policy Practice and is Chairman of  
13 eSapience; Donald Russell, a partner at Robbins,  
14 Russell, Englert, Orseck & Untereiner; Mark Popofsky, an  
15 Adjunct Professor at Georgetown University Law Center  
16 and a partner at Kaye Scholer; Robin Cooper Feldman, an  
17 Associate Professor of Law at the Hastings College of  
18 Law at the University of California; and Robert Willig,  
19 Professor of Economics and Public Affairs at the Woodrow  
20 Wilson School at Princeton, Director of Competition  
21 Policy Associates, and a former Deputy Assistant  
22 Attorney General in DOJ's Antitrust Division.

23           In Jefferson Parish, the Court argues, "It is  
24 far too late in the history of our antitrust  
25 jurisprudence to question the proposition that certain

1 tying arrangements pose an unacceptable risk of stifling  
2 competition, and therefore, are unreasonable per se."

3 That was in 1984. We are now even later in the  
4 history of our antitrust jurisprudence, and yet we find  
5 ourselves reconsidering that question. We are doing so  
6 I think because the tying doctrine has turned out to be  
7 such a central issue in many of the most important  
8 antitrust cases of recent years.

9 I suspect, although I probably should not make  
10 forecasts of this sort, that the easy part of today will  
11 be to get agreement on the proposition that per se  
12 treatment is inappropriate. Indeed, I read the passage  
13 I just quoted as, in fact, an admission that if we were  
14 to start over, that the Court would not choose per se  
15 treatment.

16 The harder task is to figure out how, if the  
17 Court moves to a rule of reason, as many people think it  
18 might, how to go about deciding whether a tie is  
19 reasonable; how, in principle, you distinguish a  
20 competitive from an anticompetitive tie; and what sort  
21 of evidence you need. Do you rely on company documents  
22 about the rationale behind a tie, or if you are  
23 skeptical of the ability to use company documents to  
24 determine intent, what objective factors would you look  
25 to?

1           We have a really distinguished panel today to  
2 help us sort through those issues, and so I would like  
3 to thank them now, and I will probably do it again, but  
4 I wanted to take the time to do that.

5           Now I will turn the microphone over to June to  
6 make some introductory remarks of her own and to give a  
7 more complete introduction of the speakers.

8           MS. LEE: Welcome to the tying panel, part of an  
9 ongoing series of hearings into single-firm conduct.  
10 The Department of Justice's Antitrust Division and the  
11 Federal Trade Commission are jointly sponsoring these  
12 hearings to help the advancement of the development of  
13 the law of Section 2 of the Sherman Act. Transcripts  
14 and other materials from previous sessions can be found  
15 on the Department of Justice and Federal Trade  
16 Commission web sites. Upcoming panels include exclusive  
17 dealing on November 15th and bundled loyalty discounts  
18 on November 29th, so mark your calendars.

19           Today's session concerns the law and economics  
20 of tying. As Michael has noted, the treatment of tying  
21 under the antitrust laws has shifted significantly over  
22 time. Courts are far less likely to condemn ties today  
23 than 50 years ago when Justice Felix Frankfurter stated  
24 in Standard Stations that tying arrangements serve  
25 hardly any purpose beyond the suppression of

1 competition. While economists, some of whom are on this  
2 panel today, have identified situations where ties pose  
3 a threat to competition and situations where ties result  
4 in efficiencies, assessing likely competitive effects in  
5 a given situation remains a challenge.

6 I look forward to learning more about this  
7 complex topic today. I would like to thank my  
8 colleagues at the FTC and DOJ for organizing this  
9 hearing. In particular, I thank Don O'Brien and Joe  
10 Matelis, and I again reiterate Michael's thanks to the  
11 panelists for participating in today's panel.

12 The organization of the panel is as follows:  
13 The first four panelists will speak. We will then have  
14 a short break, followed by the final two panelists.  
15 Those speakers will then have an opportunity to respond  
16 to each other's presentations, and this will be followed  
17 by a moderated discussion.

18 Let me now introduce the first speaker. More  
19 complete biographical descriptions can be found in the  
20 handout and also can be found on the Antitrust Division  
21 and FTC's web sites.

22 Our first speaker is Michael Waldman, who holds  
23 the Charles H. Dyson Chair in Management and is a  
24 Professor of Economics at the Johnson Graduate School of  
25 Management at Cornell University. Professor Waldman's



1 main research area is applied microeconomic theory, and  
2 his main fields of interest are industrial organization  
3 and organizational economics. In these areas, he is  
4 best known for his work on learning and signaling in  
5 labor markets, the operation of durable goods markets,  
6 and the strategic use of tying and bundling in product  
7 markets.

8 Professor Waldman's work has been published in  
9 many of the top journals in economics, and he is  
10 currently a co-editor at the Journal of Economic  
11 Perspectives and an associate editor at the quarterly  
12 Journal of Economics.

13 Michael?

14 DR. WALDMAN: Thank you.

15 Sorry, I am used to using overheads, and they  
16 are not set up for that.

17 So, I want to start just by saying that a lot of  
18 my work on or a lot of my thinking on tying comes out of  
19 discussions with Dennis Carlton, so although Dennis is  
20 not responsible for any mistakes I make in the  
21 discussion, he is responsible for lots of the smart  
22 things I say during the discussionstart just by saying that a lo

1 that is that with the Microsoft case, there has been a  
2 lot more attention to it, and what has happened since  
3 the Microsoft case is there has been a lot of  
4 theoretical contributions trying to focus on getting a  
5 better understanding of tying. So, you know, as of 15  
6 years ago, there was this sort of Chicago School  
7 argument sitting out there, and then Mike Whinston came  
8 along and sort of tried to sort of get a better sense of  
9 the Chicago School argument, and then when the Microsoft  
10 case came out, there has been lots of theory, some by me  
11 and Dennis, Choi and Stefanides, Barry Nalebuff, to try  
12 and get a better understanding of the theory associated  
13 with tying behavior, and there has been a lot of  
14 progress in terms of that issue, in terms of getting a  
15 better understanding of tying.

16 But in terms of antitrust, it is not so  
17 clear-cut. So, there is lots of progress on the theory  
18 side, less progress or less consensus, I should say, in  
19 terms of what the progress on the theory side tells us  
20 for what the right policies concerning antitrust should  
21 be given our advances in terms of the theory.

22 So, what I am going to try to do in this  
23 presentation is use theory and to some extent the old  
24 theory and the new theory to use as a guide to think  
25 about, okay, now, if we want to think about



1 to have a very interventionist policy, because on net,  
2 given the difficulty the courts have in trying to  
3 identify the relevant motivations, very aggressive  
4 interventionist policy is likely to lower social welfare  
5 more often than raise it.

6 So, here is what I will go through. I will talk

1 transactions costs standpoint, there are very many  
2 reasons to tie goods. So, you would have right shoes  
3 and left shoes. People do not want to go shopping for a  
4 right shoe and then go to a different box for a left  
5 shoe. You know, cars and radios, people typically want  
6 to have the radio put directly into the car. So, there  
7 are lots of efficiency rationales for tying, and in some  
8 sense, almost any good you can find, defined in some  
9 sense, is a tying of various goods. So, when I bought  
10 this shirt, clearly the buttons were in some sense tied  
11 on, both figuratively and literally, okay?

12 So, other efficiency rationales are search and  
13 sorting, which goes back to the old Kenney and Klein  
14 argument, and then you have variable proportion. So,  
15 the variable proportions arguments says that, well,  
16 suppose you have two goods, one that is someone with  
17 power and one without, if the goods are not tied, then  
18 there is going to be this inefficient substitution that  
19 consumers are going to do trying to substitute away from  
20 the product with market power which has an above  
21 marginal cost price.

22 There has been a fair amount of research on that  
23 idea, Malella and Nahata has an early paper talking  
24 about it, Tirole talks about that, in terms of extending  
25 to after-market monopolization, and I have a paper with

1 Dennis and a paper with a Dr. Morita showing how you can  
2 sort of take that same idea and extend it to  
3 after-market monopolization by competitive selling.

4 I am going to skip over the details of  
5 after-market monopolization and go straight to price  
6 discrimination. So, another important reason that one  
7 might tie is for price discrimination reasons. So,  
8 there are sort of basically two arguments there. The  
9 initial argument goes back to a paper by George Stigler,  
10 1968, which talks about negative correlations of values,  
11 and in Stigler -- so, there is just a simple example.  
12 Suppose you have an individual one who has a valuation  
13 on product A of 10 and product B of 6, and individual  
14 two has the reverse, product A of six and product B of  
15 ten, well, if you try to sell just product A or if you  
16 try to sell just product B, you have these heterogenous  
17 valuations, and so you cannot extract all the consumer  
18 surplus. By tying them together, creating a bundle, you  
19 have homogenized the valuations, you are able to extract  
20 all the surplus.

21 Since that initial paper, it has been pointed  
22 out by a number of authors, in particular McAfee,  
23 McMillan and Whinston, that, in fact, this negative  
24 correlation of values is not required to get their  
25 argument to go through, and so there, I just give an

1 example where the valuations are actually independent of  
2 each other, equal probabilities, and if you worked out  
3 the profits associated with it, you will see the same  
4 basic result that Stigler found even though there is no  
5 negative correlation of values.

6           The second price discrimination story is the  
7 classic metered sales story that goes back to the old  
8 IBM punch card case kind of concerning -- actually,  
9 before computers, concerning -- oh, what is the term --  
10 well, anyway, and basically the idea that you have punch  
11 cards and you have, let's say, computers -- it was not  
12 computers -- and what you are doing is you are trying to  
13 price discriminate. You are trying to give the higher  
14 price to the individuals who use the good more  
15 intensively. If the individuals who use the good more  
16 intensively use the variable commodity, in this case the  
17 punch cards, at a higher rate, what you do is then you  
18 can charge a higher price for the variable commodity,  
19 the punch cards, a lower price on the machine, and that  
20 allows you to price discriminate.

21           Clearly there are social welfare implications.  
22 It is well known that price discrimination has ambiguous  
23 social welfare implications, so from the standpoint of  
24 tying behavior in terms of antitrust, it is not clear  
25 why you would want to eliminate the ability to use tying

1 for price discrimination and allow price discrimination  
2 in lots of other types of activities. That is likely to  
3 cause distortions in terms of people trying to price  
4 discriminate in other ways and might create additional  
5 distortions.

6           Okay, the more recent literature is focused on  
7 exclusionary tying, and it starts with the Chicago  
8 School arguments. So, the Chicago School argument says  
9 you would never tie to extend your market power from  
10 market A to market B if you are already a monopolist in  
11 market A, and the standard example that is given is  
12 think about right shoes and left shoes, and there I just  
13 work through a little example of suppose  $P$  equals  $A$   
14 minus  $bX$  as demand for pairs of shoes and there is a  
15 constant marginal cost for shoes, then by basically  
16 being a monopolist on right shoes, you can extract all  
17 the monopoly power into left shoes as being sold  
18 competitively.

19           Mike Whinston, in a very important paper, shows  
20 that that argument is correct in some settings but is  
21 not completely robust. What he shows is that in a  
22 one-period setting, if the monopolist's primary good is  
23 essential, then that argument goes through, but if  
24 you -- for various reasons or in various ways, if you  
25 move away from that basic one-period essential setting,



1 the argument breaks down. So, in Mike's initial paper,  
2 he says, well, suppose that the primary good is not  
3 essential, and so there are some uses for the  
4 complementary good that do not use the primary good,  
5 then in some cases, what you can do is you can tie, you  
6 can drive out the competitors in the complementary  
7 market, and that allows you to monopolize this part of  
8 the market that does not use the primary good.

9 He and Barry Nalebuff also have arguments where  
10 the goods are independent and show that tying can  
11 sometimes be used to get the monopolist to become a more  
12 aggressive competitor, and that can cause exit, which  
13 again, is similar to his original argument, and then  
14 improve profitability.

15 Dennis and I have a working paper where we move  
16 away from the one-period setting, and you still have  
17 this essential nature of the good, but by moving away  
18 from the one-period setting as we specifically do in  
19 terms of durable goods, we show that tying can be used  
20 to capture later profits given upgrades and switching  
21 costs, which are com ij.0000031000 cm'sty.

1 It is not going to be a profitable thing to do, but  
2 there are various reasons that that old Chicago result,  
3 classic Chicago result is going to go away as you move  
4 away. It is not as robust a finding as people have

1 you have this alternative product where, say, Bertrand  
2 competition with identical products, then you know there  
3 is going to be zero profits in that market, and what  
4 they show is that by tying, you get away from that  
5 Bertrand competition/zero profit result, and that can  
6 actually improve profitability.

7           The other one which I will just mention very  
8 briefly is Dennis and I, along with Joshua Gans from the  
9 University of Melbourne, are looking at an argument  
10 where tying is used to shift rents from an alternative  
11 producer to the monopolist. The sort of novel part of  
12 that argument is that what happens is actually you tie,  
13 and the consumers still use the alternative producer's  
14 product, but that you have changed the nature of the  
15 pricing game, and it moves some of the profits from the  
16 alternative producer to the monopolist, and that turns  
17 out to be, in general, not a good thing for social  
18 welfare, because the monopolist is spending resources  
19 producing this alternative product, in which stuff winds  
20 up not getting used. We are hoping to have a finished  
21 product in just a month or two.

22           So, just in terms of summary, there are a number  
23 of different rationales for tying, and they have  
24 different social welfare implications. Efficiency  
25 rationales tend to increase social welfare when there is

1 tying. Price discrimination results tend to be  
2 ambiguous. Exclusionary tying, social welfare tends to  
3 fall if you go through the details of these analyses,  
4 though it is not always guaranteed to do so, and the  
5 other strategic rationales, the product differentiation  
6 argument tends to have ambiguous welfare consequences,  
7 while the rent-shifting argument tends to lower social  
8 welfare.

9           So, now let's turn to what this means in terms  
10 of antitrust policy. So, I think what it means in terms  
11 of antitrust policy is that for various types of tying,  
12 the tying should basically be allowed. So, if it looks  
13 like efficiency, then clearly there is no reason to  
14 intervene. If it looks like price discrimination,  
15 again, price discrimination could hurt, but it could  
16 also help. Price discrimination has ambiguous social  
17 welfare consequences, and generally, given that price  
18 discrimination is allowed in lots and lots of other  
19 types of activities, it seems odd and probably decreases  
20 social welfare to just rule this particular type of  
21 price discrimination illegal.

22           Product differentiation, again, if you go  
23 through the details of those analyses, it tends to be  
24 ambiguous social welfare effects, and finally, our sense  
25 or my sense is if the motivation is unclear but the

1 primary market is competitive, like in the 1992  
2 U.S.-Kodak case, it basically makes sense to allow the  
3 tying, because we know that competitive markets tend to  
4 maximize social welfare, and in particular, in that  
5 case, I think that the courts made a mistake, because  
6 sort of the theory for what was going on there had not  
7 been spelled out, and they went with some very  
8 speculative theories. I think the right theory was  
9 actually one where they were using it to increase  
10 profits.

11           When might courts think about intervening?  
12 Well, they might think about intervening in cases of  
13 exclusion or rent shifting, although I think the  
14 rent-shifting argument, which Dennis and Joshua and I  
15 are working on, is one that is very difficult, because  
16 the details of that argument say that that only works  
17 when, in fact, there is an efficiency associated with  
18 the tie if the tie had actually been used. So, I think  
19 it is very hard in that case to sort of say that there  
20 was not an efficiency possibility in that.

21           So, evidentiary hurdles should be high in these  
22 cases. Why should the evidentiary hurdle be high? They  
23 should be high because it is very difficult to judge  
24 motivation, and as I was just saying earlier on, in the  
25 absence of being able to judge motivation, if you try to

1     intervene aggressively, you are going to wind up hurting  
2     social welfare more often than helping social welfare.  
3     I do believe that it makes more sense to intervene on  
4     contractual ties rather than product design ties,  
5     because in product design ties, you are getting into the  
6     kind of internal workings of the firm, and it is a very  
7     dangerous thing for firms to be doing.

8             So, I know we do not have any time, so just to  
9     give a 15-second conclusion, there has been a lot of  
10    recent progress in terms of the theory of tying sort of  
11    going beyond the old Chicago School argument.  Although  
12    we have identified various reasons for why tying could  
13    make sense from an exclusionary standpoint and we have a  
14    much better sense of that than before, I think at the  
15    end of the day, even with those extra things in the  
16    literature by Barry Melba (ph), myself, Mike Whinston,  
17    given the difficulty courts have in terms of judging  
18    motivation, there still should be a very high hurdle  
19    before intervening in a tying case.

20            Okay, thank you very much.

21            (Applause.)

22            MS. LEE:  Thank you.

23            Our next speaker is David Evans, who is the  
24    Managing Director of LECG's Global Competition Policy  
25    Practice and Chairman of eSapience.  The author of four



1 and competition authorities should presume that tying is  
2 efficient or at least benign in the absence of  
3 significant contrary evidence.

4           So, what I would like to do is to turn to my  
5 first point. So, under Jefferson Parish versus Hyde, at  
6 least as it is widely understood, a firm that has market  
7 power in product A is liable under Section 1 of the  
8 Sherman Act for requiring consumers to take product B.

9           Now, hardly anyone in the antitrust profession  
10 supports what we might call a conditional per se  
11 analysis. There are lots of articles on tying, many of  
12 which Michael has surveyed, but you are more likely to  
13 be hit by lightning than to find a paper by an economist  
14 that comes close to supporting the Jefferson Parish test  
15 or anything really like it. Hardly any legal scholars  
16 advocate that test either. There is just no significant  
17 economic or judicial learning that supports the view  
18 that tying should be an especially pernicious business  
19 practice for which there ought to be an especially high  
20 level of judicial scrutiny.

21           Now, despite that consensus, per se tying cases  
22 keep on trucking. More than 30 private antitrust cases  
23 with a per se tying claim have been filed in the last



1 versus Qualcomm, which is a case not only in the U.S. but  
2 is pretty much worldwide, Munford versus GMNC  
3 Franchising, and so forth.

4 Now, you might also recall that the biggest  
5 settlement in antitrust history came just three years  
6 ago after a District Court judge found that MasterCard  
7 and Visa failed the major elements of the Jefferson  
8 Parish test as a matter of law on summary judgment. He  
9 noted, the District Court judge noted, the possibility  
10 that the courts might require a showing of competitive  
11 harm, and he left that issue and essentially that issue  
12 alone for a jury trial. Not surprisingly, MasterCard  
13 and Visa settled very soon after that.

14 Now, some commentators have suggested that  
15 Independent Ink shows that the Supreme Court has backed  
16 away from Jefferson Parish. I think there is a recent  
17 Seventh Circuit decision that suggests just that. Now,  
18 I really wish it were true in the sense that matters for  
19 lower courts and businesses, but Justice Stevens appears  
20 to have been quite careful, at least in my reading, in  
21 saying nothing whatsoever in his decision in Independent  
22 Ink that repudiates his decision in Jefferson Parish.  
23 We continue to have conditional per se liability for  
24 tying that follows really all too easily from having  
25 market power in the tying product.



1     that.

2             The two enforcement agencies should also  
3     encourage Congress to modify or kill Section 3 of the  
4     Clayton Act.  By the way, and maybe I am just not on top  
5     of what is going on, it is unfathomable to me that the  
6     Antitrust Modernization Commission has not considered  
7     tying as part of its agenda for reform.  It seems to me  
8     that the antitrust laws for the 21st Century should not  
9     target tying as an especially pernicious practice, and I  
10    think from what we have heard thus far from Michael, I  
11    think there is a consensus in the profession on this.

12            My third point for the agencies is there is a  
13    bill in Congress now to repeal certain exemptions that  
14    the insurance industry has from the antitrust laws.  
15    This is the McCarran-Ferguson Act.  Now, that is a  
16    debate that I sure do not want to wade into today, but  
17    HR-2401 perpetuates the mistake of treating tying as a  
18    separate and presumably especially harmful antitrust  
19    offense, and in my view, the enforcement agencies should  
20    oppose that provision of the bill.

21            Fourth, the Justice Department should embark on  
22    a global recall of American tying law, perhaps prodded  
23    by the FTC's Bureau of Consumer Protection.  Following  
24    our lead, the courts and competition authorities in many  
25    jurisdictions have subjected tying to some form of per

1     se or conditional per se liability. We should let them

1 less this kind of Bayesian or error cost kind of  
2 analysis.

3           When it comes to single-firm conduct, I think it  
4 is helpful then to think about what prior information  
5 tells us, what the likelihood of error is, and the cost  
6 of those errors, and with that I have three general  
7 observations on analyzing single-firm conduct.

8           First and perhaps most importantly, when  
9 practices are common in pretty competitive markets, we  
10 have prior information that these practices are  
11 efficient. That does not mean that they could not be  
12 used to harm competition, but it does mean that there  
13 should be a presumption that these practices are  
14 procompetitive. They really could not survive otherwise  
15 in competitive markets. Will Baumol and Dan Swanson  
16 have made this point in their article on price  
17 discrimination, and the Supreme Court recognized it,  
18 precisely that point, in Independent Ink, citing their  
19 paper.

20           Second, juries have a lot of trouble deciding  
21 complex cases. I have testified before a lot of juries,  
22 and I have a great respect for the jury system, but

1 rebates. Asking 12 average citizens to do so, to  
2 analyze single-firm conduct cases, I think really  
3 invites error, and this is a particular problem, of  
4 course, in private litigation and especially in treble  
5 damage class action litigation involving single-firm  
6 conduct.

7 My third point, and I think I am in complete  
8 agreement with Michael Waldman, modern industrial  
9 organization economics, at least insofar as he has  
10 discussed it with respect to tying, really I think  
11 emphasizes the need for caution. We can define in the  
12 industrial organization literature that businesses have  
13 the incentive and ability to engage in anticompetitive  
14 conduct in fairly limited circumstances, and there is  
15 not a lot of empirical evidence that these circumstances  
16 hold in practice and not a lot of guidance on how to  
17 figure them out, and, of course, that varies between  
18 different practices. I want to be careful in not  
19 generalizing too much, but I generally think that the  
20 thrust of the IO literature really does need to suggest  
21 caution.

22 Now, I am absolutely, positively not arguing for  
23 the repeal of Section 2 or for gutting Section 2 in  
24 practice. It plays a very important role in  
25 disciplining businesses with significant market power.

1 I also believe, as Michael pointed out, that as economic  
2 learning progresses, we may find that it is easier to  
3 separate bad business practices from good ones, but for  
4 now, we ought to be pretty cautious about letting the  
5 courts and ultimately jurors in private litigation  
6 embark on a rule of reason inquiry without some  
7 structure, some discipline on it, to reduce the  
8 likelihood and cost of errors.

9           So, let me apply those considerations to tying,  
10 and at the risk of restating what everyone knows and  
11 what the courts have acknowledged in Fortner, Jefferson  
12 Parish and Indcison

1 series of papers that go into many of these  
2 considerations. Perhaps the most important observation  
3 from that line of papers is that there are fixed costs  
4 of offering different product combinations, and that  
5 necessarily limits the variants offered by firms and can  
6 result in pure bundling or tying.

7 Now, the case law sometimes talks about tying  
8 denying consumers' choice. The fact of the matter is  
9 that a lot of times, consumers do not want choice. They  
10 want producers to make decisions for them, because the  
11 producers are in a better position to really do that,  
12 and consumer choice is not costless. It can raise  
13 prices for all consumers as the market gets fragmented.

14 So, our prior explication, when we see tying, is  
15 it is probably efficient and as a result of market  
16 forces. As the D.C. Circuit noted in its unanimous  
17 decision in Microsoft, "Bundling by all competitive  
18 firms implies strong net efficiencies."

19 Now, that does not end the analysis. One might  
20 imagine that economists have spent the last 20 years  
21 researching the subject of tying and concluded that, as  
22 a matter of theory, it was a highly plausible,  
23 anticompetitive strategy for firms with significant  
24 market power, and you might imagine that economists had  
25 actually discovered empirical evidence that supported





1 Michael that plaintiffs should have a high hurdle, and  
2 if I could have perhaps one extra minute, I will tell  
3 you what I think that hurdle should be.

4 First, plaintiffs should, of course, as a  
5 starting matter have to show that the defendant has  
6 significant market power in the tying product that the  
7 plaintiff has posited, and that, in itself, is a  
8 movement away from Jefferson Parish, merely inserting  
9 the words "significant market power" or "monopoly  
10 power."

11 Second, plaintiffs should have to show that the  
12 tying practice has the likely effect of excluding a  
13 significant amount of competition from the market for  
14 the tied product. Such exclusion, at least as I  
15 understand the literature, is really the source of  
16 competitive harm in really all the economic work or much  
17 of the economic work in this area.

18 Third, plaintiffs should have to raise  
19 significant doubts that the tying practice is not just  
20 normal competitive practice that is explained by  
21 efficiencies for consumers or firms. That means  
22 plaintiffs should have to show that there are two  
23 separate products and that in the absence of an  
24 anticompetitive, exclusionary strategy, we would expect  
25 that consumers would be offered the tied product without

1 the tying product. So, I would put that burden onto the  
2 plaintiff in the first instance.

3 And fourth, plaintiffs should have to show by  
4 way of economic theory and empirical evidence that the  
5 defendant has, in fact, embarked on a plausible  
6 anticompetitive strategy, and we can leave for the  
7 discussion what that actually requires.

8 Ultimately, of course, plaintiffs need to be  
9 able to demonstrate persuasively that tying will cause a  
10 net reduction in consumer welfare. I do not think that  
11 these are impossible hurdles by any means. Plaintiffs  
12 ought to be able to find evidence to support each of  
13 these tests if, in fact, a firm has engaged in tying to  
14 acquire a monopoly in a secondary market or maintain a  
15 monopoly in a primary market, as might be suggested by  
16 some of the Carlton/Waldman works.

17 So, that is where I end up, all in all pretty  
18 consistent with Michael. Thank you very much.

19 MS. LEE: Thank you.

20 (Applause.)

21 MS. LEE: Our next speaker is Don Russell, who  
22 is a partner at Robbins, Russell, Englert, Orseck &  
23 Untereiner. In 1977, he joined the Antitrust Division  
24 of the U.S. Department of Justice, where he served for  
25 24 years. He was Assistant Chief of the Communications

1 and Finance Section from 1986 to 1992, lead attorney in  
2 the Division's 1994 monopolization case against  
3 Microsoft, and Chief of the Telecommunications Task  
4 Force from 1995 to 2001. He is a founding partner of  
5 his law firm, where he maintains an active antitrust  
6 practice.

7 Don?

8 MR. RUSSELL: Thank you. I am happy to be here  
9 this morning with five very smart panelists who are  
10 going to answer the hard questions, and I am going to  
11 address the easy one, to a large extent repeating and  
12 emphasizing, again, what you just heard from David  
13 Evans, with very small areas of disagreement.

14 My basic proposition this morning -- the two  
15 basic propositions I want to assert are, number one, the  
16 single most important thing that the FTC and the  
17 Antitrust Division can do and the easiest thing for them  
18 to do in this area is to say publicly, clearly,  
19 frequently and to the Supreme Court, as soon as they get  
20 a chance to do so, get rid of the per se rule for tying,  
21 whatever is left of it. We all recognize that it is not  
22 a true per se rule, but as David explained, it is enough  
23 of a per se rule that it still causes substantial harm  
24 and confusion and harm to consumer welfare. So, we  
25 ought to get rid of it.

1           The second point I want to make, and the one  
2           that I want to spend most of my time on, is the point  
3           that I think the Supreme Court has indicated very, very  
4           clearly they are ready to take this step. Certainly  
5           lower courts have recognized that it would be an  
6           appropriate step, and many other people have as well,  
7           and this is the area where I might have a slight  
8           disagreement with David's reading of the Independent Ink  
9           decision, which I will get to in a few minutes.

10           Let's start with the Jefferson Parish decision  
11           in 1984. I think you are all probably familiar with the  
12           basic facts there. I will point out the holding of that  
13           case, which is that there was no violation of the  
14           antitrust laws, no tying violation, when the defendant  
15           did not have market power. That is the holding. Now,  
16           there are many other things that were said in the case  
17           that I would describe as dicta, the most famous part of  
18           that being the one that is up on the slide now and the  
19           one that Mike Salinger referred to earlier.

20           In the opinion, the majority opinion by Justice  
21           Stevens, he said, "It is far too late in the history of  
22           our antitrust jurisprudence to question the proposition  
23           that certain tying arrangements pose an unacceptable  
24           risk of stifling competition and therefore are  
25           unreasonable per se." A couple of things I want to

1 point out about this sentence, first, as you heard  
2 earlier, one very easy way to read this sentence is that  
3 Justice Stevens is saying, well, we really are not sure  
4 that this is right, but it is far too late to do  
5 anything about it.

6 The second thing I want to point out, going to  
7 the underlined language on the screen, is the sentence  
8 is really fundamentally inconsistent with virtually  
9 everything else that the Supreme Court has said about  
10 per se rules, the proposition that certain tying  
11 arrangements, but not necessarily all, pose an  
12 unacceptable risk to competition. In every other  
13 context the Supreme Court has said the fact that certain  
14 do does not mean that you need to have a per se rule  
15 that encompasses all of them. Per se treatment is  
16 reserved only for those situations in which it is  
17 virtually always the case that there is harm to  
18 competition and virtually never the case that there is a  
19 substantial efficiency rationale. Therefore, just  
20 reading this sentence in that context, it makes no  
21 sense.

22 Going to one of the concurring opinions in  
23 Jefferson Parish signed by two of the justices, they,  
24 again, make this point very clearly, that whatever merit  
25 the policy arguments against the per se rule might have,

1 Congress has not done anything about it, and again, this  
2 seems to me to be pretty clear even back then that these  
3 two Justices had substantial doubts that the rule made  
4 any sense, but for other reasons, they did not think it  
5 was appropriate at that time to do anything about it.

6           There were four Justices in that case who, as  
7 you know, came out and said very plainly and  
8 straightforwardly, tying should not be regarded as per  
9 se illegal in any sense, it should be evaluated under  
10 the rule of reason, and the reason that they said that  
11 was stated very clearly. It incurs the cost of a rule  
12 of reason approach without achieving its benefits.

13           The second quote there, "The legality of

1 defendant has market power, he is saying in almost the  
2 same breath, well, of course, you really have to look at  
3 the competitive consequences, not labels, which sounds  
4 to me an awful lot like rule of reason.

5           Looking more specifically at what Justice  
6 Stevens said were the competitive concerns with tying,  
7 he identified two. The first is that it would insulate  
8 the tied product from competitive pressures, and the  
9 second is that it might increase the social costs of  
10 market power by facilitating price discrimination, and  
11 those were the reasons that he advanced for the Court's  
12 historical hostility towards tying.

13           So, let's fast forward to the case that the  
14 Supreme Court decided earlier this term, the Independent  
15 Ink case, and again, the basic pattern in the  
16 proceedings below were quite similar to what had  
17 happened in Jefferson Parish. The District Court had  
18 the good sense to rule in favor of the defendant. The  
19 Court of Appeals, thinking that it was bound by old  
20 Supreme Court precedence, said no, you cannot rule in  
21 favor of the defendant here. In Independent Ink, it was  
22 because of the statementSo70000 it here. bodnr.Favor of the def



1 the product elsewhere gives the seller market power.

2           So, when the Supreme Court got this case, which  
3 had been decided below based on what Justice Stevens had  
4 said in Jefferson Parish, the Supreme Court unanimously  
5 reversed in an opinion written by Justice Stevens,  
6 ironically enough. Why does it change here between what  
7 Stevens said in Jefferson Parish and what Stevens said  
8 in Independent Ink?

9           The one area where I think I may disagree with  
10 David Evans is he looks at the Independent Ink decision  
11 and says Justice Stevens was very careful not to say  
12 anything that would undermine what he had said about per

1 that was presented in the case had absolutely nothing to  
2 do with assuming that there is market power, what is the  
3 appropriate mode of analysis of the antitrust issues?  
4 But when you look at the Independent Ink decision, the  
5 Court spends a great deal of time and devotes a great  
6 deal of attention to precisely that second issue which  
7 was not raised in this case, and I think it is  
8 significant that they did so.

9 For those of you who are particularly fascinated  
10 by these issues, I will recommend to you an article that  
11 was written by Kevin MacDonald, "There's No Tying in  
12 Baseball," in which I think Kevin does a very, very good  
13 job of explaining why if you want to look at the narrow  
14 issue that was presented in Independent Ink, there are  
15 many, many, many ways the Court could have come out, as  
16 it did, addressing only the fact that all of its old  
17 precedence about patents and copyrights and presumptions  
18 were really being misread. People were relying on  
19 dicta, and the Court very easily could have  
20 distinguished those cases and said, you know, that is  
21 just wrong. When we look at this narrow issue, it has  
22 to come out the other way. But they went well beyond  
23 that.

24 The first reason they gave for the way they came  
25 out was the presumption that a patent confers market

1 power is a vestige of the Court's historical distrust of  
2 tying arrangements, which seems to me a very odd thing

1 than they had in the past. They emphasized over and  
2 over again that there was a very, very solid consensus  
3 among economists and legal scholars that the old rule  
4 made no sense, and I think what we have heard from this  
5 morning and what we probably all knew before we came in  
6 this morning is as to the per se rule against tying,  
7 there is a very substantial, very solid, very  
8 long-standing scholarly consensus that that rule makes  
9 no sense. In Independent Ink, the Supreme Court is  
10 saying that kind of a consensus is a very important  
11 consideration when we are deciding these cases.

12 The third rule, which is particularly  
13 interesting, I think, is the Supreme Court talked about  
14 congressional action that kind of ratified this view  
15 that maybe tying arrangements are not so bad after all.  
16 Now, if you look at the legislation they were pointing  
17 to, they were actually pointing to legislation about,  
18 you know, this presumption of market power, but look  
19 again at the way Justice Stevens described this concept.  
20 "At the same time that our antitrust jurisprudence  
21 continued to rely on the assumption" -- not about market  
22 power -- "the assumption that tying arrangements  
23 generally serve no legitimate purpose, Congress began  
24 chipping away at the assumption."

25 So, again, I think this opinion in a way is

1     misleading and misstating what actually happened but in  
2     a way that suggests to me that the Court is paving the  
3     way to get rid of the last vestige of the per se rule.

1 is telling us something very different, and we are going  
2 to follow the Government's advice, suggesting, again, to  
3 me that it would be very, very important for the  
4 Division, for the FTC, to offer that advice to the Court  
5 and that there is a very high likelihood that the Court  
6 will accept that advice.

7 So, if you want to sum up what the Supreme Court  
8 said in Independent Ink to explain their decision there,  
9 almost the last sentence of the opinion says, "Congress,  
10 the antitrust enforcement agencies, and most economists  
11 have all reached this conclusion. Today, we reach the  
12 same conclusion."

13 I think that is a very clear indication, you  
14 know, here is the road map, here are the things we will  
15 look at if this remaining per se rule comes before us,  
16 and I think when you look at the record, it is pretty  
17 clear how they would come out on that.

18 Now, I will admit that I may be reading too much  
19 into this, and I will certainly agree with David,  
20 virtually every quotation I have put on the screen  
21 there, you can read it in a different context and you  
22 can say, well, it is not really inconsistent with the  
23 per se rule, it is not really inconsistent with  
24 Jefferson Parish, and they were really just talking  
25 about this narrow issue about patents and presumptions,

1 but I do not really think that that is right, and one of  
2 the reasons that I do not think it is right, in addition  
3 to the things that the opinion itself says, are the  
4 questions and the comments that various Justices made  
5 during the argument in Independent Ink.

6 Justice Stevens was the most active questioner  
7 and the most active participant in this argument, and  
8 time after time after time, the issue he focused on is,  
9 does this per se rule make sense? And if you want to  
10 get to what seems to be his tentative conclusion, the  
11 last quote on this screen, "It doesn't seem to me it  
12 makes any difference whether General Motors has a  
13 monopoly or not," that is, whether they have market  
14 power or not, "when it wants to sell two components as  
15 part of the same package." What he seems to be saying  
16 here, the question that he keeps asking is, you know,  
17 why shouldn't that be okay?

18 Justice Roberts had an even stronger statement.  
19 "Much of the economic literature sort of sweeps away  
20 this question because it rejects the notion of tying as  
21 a problem in the first place."

22 Justice Breyer, again, had many questions all  
23 devoted to the same point, and, among other things,  
24 focusing specifically on price discrimination, in which  
25 he says, "I think most economists, in fact, everyone I

1 have read agrees with the notion that price  
2 discrimination is sometimes good and sometimes bad. The  
3 scholarly consensus that you see later on when the  
4 opinion comes out.

5 And Justice Scalia, again, in a provocative way  
6 says, is there anything to this notion of tying as an  
7 anticompetitive practice at all?

8 So, to focus here, I think the Supreme Court in  
9 the Independent Ink decision has laid out very clearly  
10 what arguments it needs to hear with respect to the  
11 remaining per se rule, and they have indicated, I think  
12 pretty clearly, how they will come out on that question  
13 if and when it is put in front of them. The first  
14 point, they point to the Supreme Court's prior  
15 recognition that tying is often a procompetitive  
16 practice, which is the way they are now reading that  
17 history.

18 Second, they point to a scholarly consensus,  
19 which I think we will hear today and we have heard  
20 elsewhere is clearly in place with regard to the per se  
21 treatment of tying.

22 Third, congressional action, the Supreme Court  
23 has already identified congressional action that they  
24 think is an indication that maybe tying is not so bad  
25 all the time anyway.



1           The thing that is missing at the moment and the  
2 thing that I think is critical, which is why I focused  
3 my remarks this morning on this, is support for a change  
4 in the rule from the antitrust agencies. There was an  
5 opportunity for the Government to do this in the  
6 Independent Ink case. The question was asked very  
7 clearly, what is your position on this? And the  
8 Government's lawyer said, well, Justice O'Connor, who  
9 argued for rule of reason treatment, made persuasive  
10 points, but we have not taken a position on that  
11 question.

12           I want to make it clear I am not criticizing  
13 that answer. I think it was perfectly appropriate in  
14 the context of that case, but I also think it is very  
15 important, very critical, that the next time the  
16 question comes up that the Government does take a  
17 position, which is the per se rule makes no sense. This  
18 should be a rule of reason analysis.

19           (Applause.)

20           MS. LEE: Thank you.

21           Our final speaker before we take a short break  
22 is Mark Popofsky, who has been a partner at Kaye Scholer  
23 since leaving the Antitrust Division of the Department  
24 of Justice in 1999, where he was senior counsel to the  
25 Assistant Attorney General. Mark works in the

1 antitrust, intellectual property and technology practice  
2 groups at Kaye Scholer and chairs the firm's technology  
3 and competition practices.

4 Mark is an Adjunct Professor at Georgetown  
5 University Law Center where for several years he has  
6 taught the Advanced Antitrust Law and Economics Seminar.

7 Mark?

8 MR. POPOFSKY: Thanks, June. It is a pleasure  
9 to be here today. I would like to thank both  
10 enforcement agencies for holding these hearings and for  
11 inviting me to participate in them, and it is nice to  
12 see so many familiar and well-respected faces here in  
13 this room, both in the audience and on the panel today.  
14 I approach this topic like Don Russell as a simple  
15 country practitioner, a formal federal enforcer, and a  
16 veteran of several rounds in the Microsoft jungle, a  
17 veteran of those wars.

1 I see the opinion in Independent Ink as very craftily  
2 written by Justice Stevens, who has had a 40-year agenda  
3 in this area, to say, well, what we are talking about  
4 today is not Jefferson Parish at all but a special per  
5 se rule that was applicable to intellectual property and  
6 perhaps even only to patent ties, and I am here today,  
7 Justice Stevens, writing for the Court, to address only  
8 the viability of that per se rule.

9 To be sure, much in the decision and especially  
10 in his reasoning probably was prompted by many of his  
11 colleagues to get them all on board, and this suggests  
12 exactly what I said a few minutes ago, there is a  
13 majority out there to overrule Jefferson Parish, but I  
14 think it would indeed need a swift kick in the Supreme  
15 Court's rear by the enforcement agencies, among others,  
16 to get them to take that next step. I do not think it  
17 is inevitable.

1 senses, as Jefferson Parish articulated, or under a full  
2 or truncated rule of reason. Why are we here, in other  
3 words, to talk about tying under Section 2 of the  
4 Sherman Act? What does it accomplish?

5 In my view, that question depends on answering  
6 two questions. The first is the conduct subject to  
7 Section 2 from a legal perspective. I am not one of  
8 these fancy guys with a Ph.D. or fancy gals with a Ph.D.  
9 In a legal sense, does Section 2 reach a broader range  
10 of conduct that can be labeled tying in Section 1? And  
11 two, and perhaps most importantly, regardless of the  
12 answer to that first question, should we have different  
13 rules of liability for Section 2 for tying-like conduct  
14 than Section 1? I will address each of these briefly in  
15 turn.

16 I believe it is fairly clear that Section 2 does  
17 reach a broader array of tying-like conduct than Section  
18 1. Let me give you three examples. A conditioned  
19 refusal to deal, which is set up like a good old  
20 fashioned Colgate policy. The monopolist says to its  
21 customers, I will not deal with you in the future unless  
22 you take this tied good with the tying good. The  
23 customer acquiesces.

24 Suppose, like in a Colgate situation, we do not  
25 have enough of a basis to infer a Section 1 vertical

1 agreement and all we have is, technically, unilateral  
2 conduct. That is something that Section 2 and, indeed,  
3 perhaps even Clayton Act Section 3 would reach that  
4 Sherman Act Section 1 does not, the conditional refusal  
5 to deal, which could, of course, ripen into an agreement  
6 but need not.

7           The second and more intriguing and important  
8 example, which I gather we will discuss after the break,  
9 is technological tying and product design. Now, it is  
10 notable that the Microsoft case, which I lived, did  
11 treat technological tying and product design as conduct  
12 subject to both Section 1 and Section 2, but I think the  
13 Court really glossed over the issue there. If all you  
14 have is a monopolist or would-be monopolist designing a  
15 product, it is not clear to me that every court is going  
16 to reach the conclusion that that is the functional  
17 equivalent of an agreement or a contractual tie. I  
18 think it is an issue of great dispute in the case law,  
19 and that might be yet a second area where a Section 2  
20 liability rule used for tying makes a substantial  
21 difference.

22           The third and presently very hot area brought to  
23 us by one of Don Russell's partners in the LePage's  
24 cases is bundled discounts, which, of course, is a  
25 category of conduct that can achieve similar results to

1     tying and exclusive dealing.  Indeed, tying and  
2     exclusive dealing, of which there is, of course, going  
3     to be another forum and of which tying is but a form,  
4     are just extreme forms of bundled discount.  There is a  
5     discrete rule here.  There is law dating back at least  
6     to the Way and Means case in the Northern District of  
7     California as to when a bundled discount should be  
8     treated as an outright tie depending on what percentage  
9     of the tied item is purchased outside of the bundle, but  
10    that rule, as I just mentioned, is discreet.  It would  
11    only capture some forms of bundled discounting under  
12    Section 1, and there will be a large number of bundled  
13    discounts reached only under Section 2 and not Section  
14    1.

15           Bottom line, in my view, there very much is a  
16    difference between the coverage of the two provisions,  
17    Section 1 and Section 2, with respect to tying and  
18    tying-like conduct, and I think it is largely settled  
19    that there is a difference and it will remain.

20           The second issue I wish to address today, the  
21    appropriate legal standard, is, by contrast, extremely  
22    unsettled.  The issue, put brightly, is whether Section  
23    2's legal test for liability for tying is different than

1     being under the full rule of reason.   So, what I am

1 rule of reason -- so this is presumably the  
2 post-Jefferson Parish world come a little sooner because  
3 the Microsoft Court created an exception to Jefferson  
4 Parish -- the Court said Section 1 is concerned  
5 exclusively with harms to competition in the tied  
6 product market. Look only to harms in the browser  
7 market, the Court said, ignore this monopoly of  
8 maintenance in the tying product market, operating  
9 systems. The Court said, we are, in other words,  
10 concerned only with how the tied market can be affected.

11 Strikingly, the Court also said the standard of  
12 liability here is higher in some sense under Section 1  
13 when you are looking at a tied product market than  
14 Section 2, which, of course, the Court said had to do  
15 with in that case the tying product market. The Court  
16 said for a Section 1 rule of reason tying claim, we need  
17 actual harm to competition in the tied product market.  
18 The Government must define that market with precision,  
19 they must show a substantial likelihood of  
20 anticompetitive effects. Government, you have not even  
21 gotten past go on that issue, you are likely to lose.  
22 We are not willing to do what we did in the Section 2



1 willing to infer causation of anticompetitive harm  
2 merely from the fact that Microsoft engaged in a  
3 category of conduct which the Court said was likely to  
4 cause anticompetitive effects.

5           So, just to step back and summarize, we have a  
6 clear difference, the Court of Appeals says, for Section  
7 2 tying and Section 1 tying. Section 1, give me actual  
8 effects in the tied product market. Section 2 tying,  
9 give me a reasonable likelihood that we have conduct  
10 likely to cause upstream monopolization for Section 2  
11 tying. The liability standard in a very discrete way is  
12 lower, ironically, under Section 2 after the Microsoft  
13 decision than Section 1, at least in terms of what is  
14 the nuance and the measure and the strength of the story  
15 you have to have as a plaintiff to infer competitive or  
16 show competitive harm.

17           I think this was no accident in this unanimous  
18 per curiam en banc opinion. Tying, as we have heard, is  
19 ubiquitous in competitive markets. If you have a legal  
20 rule that m.elrule 7dpuem to chow cnticompetitive TjET1.00000 0.

1 have any story of plausible anticompetitive effects and  
2 have a story of some market power. Differentiated  
3 products, we all know, is very easy to show some market  
4 power over.

5 So, the Court is saying, higher standard for  
6 liability, at least under some categories of cases under  
7 Section 1, there -- technological tying. Perhaps a  
8 break to the plaintiff under Section 2, provided the  
9 plaintiff has a clear story of how the tie-in can  
10 actually lead to monopolization of the tying market, and  
11 it was a story of how NetScape's distribution of  
12 browsers would enable Microsoft to prevent NetScape from  
13 reaching certain economies of scale to grow into a  
14 threat for Microsoft.

15 So, whether or not one agrees with what the  
16 Microsoft Court said about the concern of each provision  
17 of the Sherman Act, exclusively downstream for Section  
18 1, exclusively upstream for Section 2, you have a court  
19 saying the rules are different depending on what you are  
20 looking at for tying, and this leads to my final major  
21 point.

22 This says something more general, I think, about  
23 Section 2 tying, where we are going in this area, and  
24 importantly, what the enforcement agencies can  
25 contribute. As I have written recently in an Antitrust

1 Law Journal article, there is a holy war raging over the  
2 appropriate liability standard under Section 2  
3 generally. Everything, at least almost everything, save  
4 perhaps very discrete areas like charging a monopoly  
5 price and after-Trinko refusals to deal, are up for  
6 grabs.

7 In fact, I think this revolution in Section 2 is  
8 inherent in Trinko, where Trinko itself, often read as a  
9 very pro-defendant decision, says in designing Section 2  
10 legal standards, we should be Bayesians, as David Evans  
11 said. We should look at the risk of type one errors,  
12 the risk of false positives, type two errors, the risk  
13 of false negatives, the relative likelihood and the  
14 magnitude of the likely effects of each, and enforcement  
15 costs, and under that process, in a very common law  
16 fashion, courts will arrive at the appropriate Section 2  
17 doctrine or legal rule for the conduct at issue.

18 I think that is where we really are with Section  
19 2 law and tying. Much is up for grabs despite what  
20 Microsoft said about the difference and focus between  
21 Section 1 and Section 2, and I think what is yet to be  
22 written in the next ten years I think will show us is  
23 where the courts go applying many of the principles that  
24 Dr. Waldman, Dr. Evans, and I am sure Ms. Feldman will  
25 enlighten us of about the economic learning and

1 translating that into concrete legal tests for discrete  
2 situations.

3 Now, there is no time today for me to lay out  
4 plausible stories of where this will take us and  
5 specific examples of what legal rules might emerge for  
6 Section 2 law in tying, but let me give you sort of  
7 three rules of thumb as I see it.

8 First, I think as Dr. Waldman said, condemning  
9 tying through contracts likely poses fewer risks of  
10 false positives than condemning unilateral tying, true  
11 unilateral tying, like product design. This suggests  
12 that some forms of "unilateral tying" reached only under  
13 Section 2 might have applied to them a more lenient  
14 legal test for the defendant than Section 1. We might  
15 indeed have the courts leading to a higher standard of  
16 what the plaintiff has to show.

17 Now, there have been some cases which have gone  
18 the other way recently. The Teva-Abbott decision, which  
19 some of you may be aware of, held that a monopolist  
20 product design decision should be analyzed under the  
21 rule of reason, did not really get into what that means.  
22 The next step will be deciding what that rule of reason  
23 entails under Section 2, whether it is a different  
24 standard than under Section 1 or the same, and there is  
25 a good argument it should be different.

1           That said, how tying should be treated under  
 2   Section 2 really should not depend on a game of  
 3   formalisms, is it unilateral, is it contractual,  
 16 form of a condition to a plaintiff friendly  
 4   although that can inform, as I just said, the analysis.

5   What is important in this area is that related forms of  
 6   conduct, related from an economic perspective, be  
 7   treated similarly under the antitrust laws. The last  
 8   thing we want is courts all over the country coming up  
 9   with different legal rules that create incentives for  
 10   firms to inefficiently substitute to different conduct  
 11   to avoid the most plaintiff friendly doctrine, and let  
 12   me give you an example of that.

13           Suppose courts come out with a rule that  
 14   exclusive dealing, if you have a contract, is under the  
 15   full rule of reason, but exclusive dealing done in the  
 16   form of a condition to a plaintiff friendly

1 forms of tying present strong or unusual cases for  
2 efficiencies. Certain bundles of IP rights, for  
3 example, may provide an insurance function that other  
4 tying arrangements lack. There may be special  
5 efficiencies for certain forms of bundled discounting or  
6 volume discounts, and those situations might argue for  
7 differently restructured analyses than the traditional  
8 general rule of reason, taking into account, as I said,  
9 you want to treat what the economists demonstrate to be  
10 economically similar arrangements similarly.

11 Backing up in my final point, what does this  
12 suggest about the role of the enforcement agencies in  
13 this area? Putting aside the issue of whether the  
14 agencies should jump on the next opportunity to overrule  
15 *Jefferson Parish v. Hyde*, I think through their closing  
16 statements at the end of investigations, the Section 2  
17 cases they elect to bring, importantly, the amicus  
18 briefs they elect to file (a lot of the actions are  
19 private), the business review letters they issue, and  
20 the competition advocacy in which the agencies engage,  
21 particularly as regimes overseas decide what their  
22 Section 2-like rules of the road are going to be, the  
23 agencies can play an important role in shaping what  
24 Section 2's rule of reason looks like as applied to  
25 tying arrangements in the years to come.

1           As I said, much is up for grabs, and this is the  
2 moment when the agencies should seize the initiative and  
3 set forth what their views should be of where these  
4 arrangements should and should not cross the line.





1 view, pharma and biotech are the next frontiers for  
2 antitrust enforcement in general and for Section 2 in  
3 particular, and I have chosen some of my examples with  
4 that in mind.

5 I also want to frame my comments in terms of  
6 what is different about technology markets and what is  
7 not different about technology markets. In terms of  
8 what is different about technology markets, I want to  
9 talk about a particular kind of leveraging, and that is  
10 what I call defensive leveraging. For almost a century  
11 legal scholars and economists have struggled to  
12 understand leveraged behavior and determine when it is  
13 harmful. Most of that debate has centered on what I  
14 would call traditional leverage, in which a monopolist  
15 in one product tries to leverage its power in a  
16 complementary product. You can imagine an ice cream  
17 monopolist who bundles and says I will not sell my ice  
18 cream unless you buy cones as well. With the more  
19 traditional form of leverage, the economic debate  
20 concerns whether monopolists can get any profit out of  
21 that or cause any harm that. But there is another form  
22 of leveraging, and in this form of leveraging, the  
23 monopolist is not trying to reach into another market  
24 and grab more monopoly profits. The monopolist is  
25 trying to protect its original monopoly from the next

1 generation of products that could serve as substitutes.  
2 It is using the power of multiple markets to maintain  
3 its original monopoly, and I call this defensive  
4 leveraging.

5 Now, technology markets are ripe for this form  
6 of leveraging, among other reasons, because of their  
7 tendencies towards network effects. That is, they tend  
8 to be industries in which there are advantages in doing  
9 what everyone else is doing. Where there are network  
10 effects, a monopolist who has the bulk of the customers  
11 can use its existing base to project into the market for  
12 new technologies that are threatening to erode its  
13 original monopoly. So, tech markets are different  
14 because of their strong potential for defensive  
15 leveraging.

16 They are also different because of product  
17 design challenges, and here, let me offer you a pharma  
18 example. A few years ago the FTC brought a successful  
19 enforcement case against a pharmaceutical house that  
20 sought to tie its dominant drug to a new monitoring  
21 product. Now, this monitoring product could have been  
22 used just as easily with all the competitors' drugs, but  
23 the pharmaceutical company wanted to say we will only  
24 sell our monitoring product if you will also buy our  
25 version of the drug. The concern was that the pharma

1 house was trying to use its new monitoring product to  
2 protect its power in the drug market as its power  
3 started to wane.

4           Now, if we would not allow a company in these  
5 circumstances to tie a drug together with a product that  
6 monitors the drug, why would we allow a product designed  
7 to do both, that is, to administer the drug and monitor  
8 it at the same time? Or from another perspective,  
9 should we allow two products to be bio-engineered so  
10 that they work only in combination with each other?  
11 That is an issue in agri-biotech. If we are not careful  
12 in the area of product design, what we are doing is  
13 simply inviting parties to design around the patent laws  
14 and the antitrust laws, and then the question of whether  
15 behavior violates the antitrust laws becomes a  
16 scientific question rather than an economic one, the  
17 question being, "Is it feasible to combine products  
18 technologically?" If so, you have no problem with  
19 enforcement agencies. It should not be that our legal  
20 decisions turn on questions like that.

21           There are tremendous challenges in the areas of

1 offering avenues for avoiding the appearance of tying  
2 and bundling simply by manipulating the product. These  
3 are wonderful products, and it is so easy to be swayed  
4 by how wonderful they look without asking what is  
5 happening behind the science. We still have to  
6 delineate, even if you are talking about biodesign and  
7 product design, what is reasonable and what is not  
8 reasonable.

9           And finally, technology markets are different  
10 because of patent groupings. Patents tend to travel in  
11 packs. Companies build or acquire portfolios, and they  
12 typically engage in defensive patenting; that is, trying  
13 to file patents for all of the space surrounding their  
14 key patent so nobody else can develop any substitutes to  
15 compete. And most importantly, tech products have  
16 multiple patents within them, which creates  
17 patent-groupings.

18           Now, patent-groupings can be and often are  
19 perfectly procompetitive or they can create  
20 opportunities for strategic anticompetitive behavior.  
21 The key is, how are we going to find the difference  
22 between these?

23           I talked a little bit about the fact that I  
24 think there are differences with technology markets.  
25 They operate differently from what we are accustomed to

1 seeing in traditional markets, and they present  
2 interesting challenges for analyzing behavior. While  
3 technology markets are different, they are not sacred,  
4 and I am very concerned by language in some recent court  
5 decisions which suggest that markets that relate to  
6 intellectual property should be treated more gently  
7 under antitrust laws. It is an eerie throw-back to  
8 language in the early 1900s when courts were struggling  
9 with the question of whether antitrust laws could even  
10 be applied to patents or to other intellectual property  
11 rights.

12 Intellectual property rights are not sacred  
13 monopolies. They are not even monopolies at all, at  
14 least not in the antitrust sense of the word. They may  
15 be downright worthless, and I can discuss some of this  
16 in the question period. They are not even an exclusive  
17 right, again, not in the way that antitrust thinks about  
18 it. There are certainly challenges in understanding  
19 these rights, but they need to receive the same reasoned  
20 consideration as other types of products. I use the  
21 term "reasoned" carefully and also intentionally. It is  
22 certainly true, as all of the panelists have pointed  
23 out, that we have moved away from a strict per se rule  
24 in tying cases, and that we appear poised to move even  
25 closer to a rule of reason approach, if not completely

1 to a rule of reason approach. I am going to jump to a  
2 world in which we have moved very close or completely to  
3 the rule of reason. I think the important part of this  
4 shift will be figuring out how to react when companies  
5 that engage in tying behavior claim to have very good,  
6 procompetitive reasons for the tie.

7 How do we analyze what is a legitimate  
8 procompetitive reason and what is not? To do this, I  
9 want to suggest that we borrow from the experience of  
10 regulators at other agencies in different contexts, and  
11 I think there is a perfect example from Patent and  
12 Trademark Office experience. The PTO requires that  
13 parties who want to make certain types of claims must  
14 show that those claims are substantial, and credible.  
15 I would like to spin out how it works there and how I  
16 think it would work here.

17 A few years back, researchers began fishing out  
18 little pieces of genes, not the whole gene, but some  
19 little pieces from a soup of genetic material, and they  
20 wanted to get a patent on that little piece that they  
21 found. Now, in order to get a patent, you have to tell  
22 the PTO how you can use the thing that you are  
23 patenting. When they fish this little piece out of the  
24 genetic soup, researchers had no idea what it was. They  
25 did not know what gene it came from, they did not know

1     whether it promoted disease or whether it helped fight  
2     against disease. They just had a little snippet, and  
3     they did not have a use for it.

4             They began to file patents using very general  
5     uses. They said, "These little snippets can also be  
6     used for fishing out other snippets or for doing  
7     research." This is when the PTO developed its test:  
8     Specific, substantial and credible. Don't just tell us  
9     something general that can be true of any of the  
10    category of things that you are talking about. Tell us  
11    something specific to what it is that you have found and  
12    what it is that you are doing.

13            I think a test like that, specific, substantial  
14    and credible, is the essence of what courts and  
15    regulators are going to have to ask about procompetitive  
16    defenses offered in tying cases. Don't just give us  
17    general reasons that would apply to any tie or that  
18    would apply to any tie in your industry. Give us  
19    something that is specific to your product and to your  
20    tie.

21            So, in computers, for example, anyone can say it  
22    is easier for consumers if you put things together in an  
23    operating system. When different applications are  
24    together in an operating system, Ma and Pa do not have  
25    to worry about loading things together, they do not have

1 to worry about interoperability. There are always  
2 consumer advantages when things are put together in  
3 computers, but it cannot be that any tie in the computer  
4 industry is always okay. You must tell us something  
5 about what it is that you are doing and why we should  
6 see this as procompetitive.

7           If you think outside of computers to products in  
8 general, any company can say, "We can control quality  
9 better if we control all the parts you use with our  
10 equipment or all the pieces that might integrate  
11 together. Our customers do not suffer through people  
12 finger-pointing about which part is wrong. They only  
13 have to call one person when they need a repair." But  
14 again, that is true of any combination of things. If  
15 you want to claim a procompetitive benefit, I would say  
16 tell us something that is specific to your product and  
17 to your tie.

18           I want to point out, again, the reason I am  
19 concerned is that there has been a swing in the  
20 pendulum. We needed to talk about what was  
21 procompetitive about tying in order to move away from  
22 the notion that all tying is bad. We want to be  
23 careful, once we have talked about ways in which ties  
24 can be good, that that does not blind us, and that now  
25 all we ever talk about are the good things in tying.



1           Let me give you an example of something that I  
2 think would qualify as a specific, procompetitive  
3 defense for a tie. There was a pharmaceutical house  
4 that recently received a lot of criticism when it sought  
5 regulatory approval to combine its existing cholesterol  
6 drug, that was losing market share, with a new  
7 blockbuster heart drug and to sell them only as a single  
8 pill formation. They had a product that was losing  
9 market share, and they were going to combine it with a  
10 new kind of blockbuster as the only way consumers were  
11 going to be able to get it. The company only agreed to  
12 sell the two separately after a lot of public criticism.

13           Imagine, instead, that the company's drug is  
14 about to be pulled from the market for dangerous side  
15 effects. You can fill in the name of a number of recent  
16 drugs that have gotten into trouble. Now, suppose the  
17 company sought regulatory approval to produce only a  
18 combined pill including another substance that would  
19 mitigate the dangerous side effects. That is a  
20 legitimate and specific procompetitive benefit for  
21 bundling a product. In other words, tell me something  
22 about your product and your tie that helps us understand  
23 why this is a good thing that you are doing.

24           I suggested asking whether the claim is  
25 specific, substantial and credible, and in evaluating

1     credibility, I would borrow a page from another agency,  
2     the SEC. The SEC looks very closely at stock  
3     transactions that occurred right before big news. They  
4     find these highly suspect. In the same vein, I believe  
5     we should look at the market timing of a company's  
6     decision to tie in order to test the credibility of its  
7     claims of procompetitive benefits.

8             For example, I would be very wary when a company  
9     seems to find all kinds of procompetitive reasons for  
10    tying just before the patent on its blockbuster drug is  
11    about to expire or just when a fundamental market shift  
12    is taking place. Under those circumstances, one might  
13    have reason to doubt the sincerity of the company's  
14    procompetitive fervor.

15            In short, what I want to say today is that  
16    markets related to high-tech and biotech present  
17    significant pressures and opportunities for  
18    anticompetitive behavior. We should be aware of those  
19    as we move forward in the new sets of tests. The  
20    challenge for law makers and for regulators is to be as  
21    intellectually creative as the emerging markets  
22    themselves in order to preserve competition without  
23    hampering the innovation that we have come to expect in  
24    technology, both000 cm0ctiect in

1                   (Applause.)

2                   MR. SALINGER: Our final speaker today before we  
3 begin our round table discussion is Robert Willig,

1 organization, the relationships between government and  
2 business and domestic and international microeconomic  
3 policy. He has served as a consultant and advisor for  
4 the FTC and DOJ on antitrust policy, for OE CD, the  
5 Inter-American Development Bank, and the World Bank on  
6 global trade, competition, regulatory and privatization  
7 policy, and for governments of several nations on  
8 microeconomic reforms, and so with no further  
9 introduction, Bobby.

10 DR. WILLIG: I am going to tie my conception of  
11 my time slot to that which we have already experienced  
12 from some of the previous speakers, not the last one,  
13 but particularly the first one. Nice, long, lazy, but  
14 hopefully very illuminating.

15 I have been asked to speak today, challenging  
16 subject, and that is not only to make it unanimous, I,  
17 too, am against per se treatment of tying under the  
18 antitrust laws. I, too, think there is no business or  
19 economic or indeed any logical justification for such a  
20 treatment by the courts. I, too, would have the  
21 agencies articulate that at every possible forum,  
22 including the high courts of the land. Okay, let's get  
23 down to the hard work.

24 To really advance that position -- I am not sure  
25 how courts actually work, Don is obviously all over



1 thoughts about tying, and then, after a few minutes,  
2 specialize down to the subject of tying through  
3 technological design. In general, we all know that  
4 there is a problem, a challenge, in issues of  
5 monopolization, because the very same practices that  
6 have the potential to harm competition in the antitrust  
7 sense, frequently those very same practices also may be  
8 very good for consumers and, indeed, be an intrinsic  
9 part of competition, even though perhaps, like other  
10 forms of competition, if the succeeding firm undoes the  
11 market presence of the losers, then, in fact,  
12 competition can be weakened by the very process of  
13 competition, at least in the short run. So, we have  
14 this conflict between good and bad practices or  
15 practices that can be good or bad depending upon their  
16 setting, and so we have a tough decision process and theheir

1 particularly vulnerable in its underlying incentives.  
2 It is really distressingly easy to stultify the  
3 incentives for innovation by misuse of antitrust or by  
4 any other form, a policy that tends to strip off some of  
5 the rewards to victory, because innovation is so  
6 intrinsically risky as an economic activity, so we need  
7 to be really careful with innovation generally.

8           Big picture, how do we go about assessing  
9 monopolization? This is writ very large, but I would  
10 say there are two basic phases. The first involves  
11 asking the question whether the challenged practice has  
12 actually harmed competition, or on the come, is there a  
13 dangerous probability that it will? That, of course, is  
14 easy to say. It is not so easy to analyze, and lots and  
15 lots and lots of mistakes are made in judicial settings,  
16 and plaintiffs are crazy in terms of their allegations  
17 frequently.

18           This involves causality. It involves  
19 understanding what is competition. It is not just  
20 market share, it is not just the number of competitors  
21 involved in a marketplace, it is something more subtle  
22 than that. We, in this room, probably all understand  
23 this very well. I need not preach to you on the  
24 subject. I will just post it up there as the first of  
25 the two phases.

1           The second phase is, well, perhaps the  
2 challenged practice has, indeed, harmed competition.  
3 Things like that happen. Some competitors are more  
4 efficient than others, and they exercise their  
5 efficiency in the marketplace. They win, they knock out  
6 their less efficient rivals or rivals with less  
7 efficient products, and now there is only a few or even  
8 one left in that relevant market, at least for a while.  
9 What should we do about that? Has the practice been  
10 monopolizing or has it been successfully competitive?  
11 What is the framework for that inquiry?

12           I list here five different articulations which  
13 are part of what Mark characterized as the blazing wars  
14 of Section 2 turf today, various articulations to me.  
15 For present purposes, I think they are all close enough.

16           Is the practice part of competition? I like to  
17 put it that way. As DOJ says, does the practice make  
18 economic sense? The difference between those two -- I  
19 have parsed Greg Werden's writings, and it is tough to  
20 find them, but his writing is very smart. I am sure  
21 there is a difference, but for present purposes...

22           Is there a sound business rationale? Courts  
23 used to say that. Is that really any different?  
24 Grinnell, is the harm to competition willful? Well, I  
25 am a little nervous about that language, because



1 sometimes it is viewed as a directive for a  
2 psychological study of subjective intent, reading of  
3 locker room type business documents and trying to infer  
4 psychology from them, but as long as we understand  
5 willfulness to be revealed only by careful economic  
6 analysis, then I think that, too, is a nearly equivalent  
7 articulation.

8           And then my personal favorite, whether there is  
9 sacrifice of profit, turns out to be a very nuanced way  
10 to say it as well. Lots of issues srwj1tst.,pInpack 6 an

1     impelled, really strongly forced, to buy the tying good,  
2     the one that purportedly has this leveraging power, and  
3     thus, the tied good, because of the tie, by market power  
4     that surrounds either the tying good itself or the  
5     system, the combination of the tied good along with the  
6     tying good.  Are the market forces so strong that,  
7     indeed, consumers are pushed very hard into that  
8     behavior?  Because if not, where is the tie?  It is just  
9     consumers making a choice.  So, that is the first leg,  
10    at least to an economist, this economist, for labeling  
11    whether or not the tie has the potential of harming  
12    competition.

13           That is not enough, though.  Consumers can be  
14    impelled to buy the system whether or not there is a  
15    resulting harm to the ability of rivals in some relevant  
16    market to compete in view of the fact that consumers are  
17    being pushed to buy the tying and the tied good  
18    together.  So, does the unavailability of the tied  
19    sales, that unavailability created by the tie, is that  
20    harmful to rivals' ability to compete, and are those  
21    rivals so precious and so unreplaceable to competition  
22    in some relevant market that competition is truly harmed  
23    as a result?

24           That question can go either way, but I think it  
25    is the right question, and I have seen a lot of cases





1           In a more particular way, we have a challenged  
2 tie. Would that challenged tie be profitable without  
3 taking into account this harm to competition and its  
4 impact on monopoly power that has been found in the  
5 first phase? We have found, say, that tying has harmed  
6 competition. Would the tie have been profitable for the  
7 perpetrator even without that extra monopoly power? I  
8 think that is a good organizing question before moving  
9 on.

10           So, let's move on. Here we are now finally in  
11 the setting of tying via technology, via product design,  
12 and let me paint what for me is the toughest scenario.  
13 It is the most interesting scenario, where we actually  
14 do have a plausible allegation of exclusion through the  
15 technological tie. So, we have got a new product design  
16 that has been launched, and it technologically ties two  
17 components together of a system, of a duo, that could  
18 conceivably otherwise be open without the technological  
19 tie.

20           If there are two pills tied together chemically,  
21 that is a great example. It is the old local phone  
22 system and long distance when the Bell System was in  
23 charge before antitrust. It is a much more lurid  
24 example of Microsoft. Imagine if Windows had little  
25 explosive devices where if you tried to plug NetScap

1 into it, the computer would fry. I mean, some alleged  
2 that was the case, but usually they forgot to do some  
3 sequencing keypunches that allow it to happen, depending  
4 on which side of Microsoft you are on, but that would  
5 have been a much more telling example of a technological  
6 tie.

7           How about the iPod, which are said to be  
8 technologically tied to iTunes, through the protocol in  
9 which the music is encoded and now the video as well?  
10 That is certainly a technological tie, or at least it is  
11 alleged to be in some sense.

12           In the good old days, remember mainframe  
13 computers? They had their plugs changed, allegedly, so  
14 only IBM peripherals could plug into the mainframes.  
15 That was surely a technological tie. To say nothing of  
16 the radios in GM cars and so on.

17           Okay, so as a result of this product design, the  
18 two components, one of which at least has real  
19 potentially competitive marketplace forces bearing on  
20 it, these two components are tied because of the product  
21 design. So, what could possibly be anticompetitive  
22 about that?

23           Well, suppose that they are rivals for at least  
24 one of those components. There is NetScape as a  
25 browser, there are other web sites where you can go to

1 get music, but that music does not go into the iPod.  
2 There are other places to go for pills that have some of  
3 the same therapeutic functions, not exactly the same,  
4 but surely substitutes. So, these rivals of the other  
5 competitive entrants into this marketplace are shut out  
6 of the system by the technological tie.

7 Now, there are two lead theories of how that  
8 might create market power. The sellers of these other  
9 potentially competitive components have a much reduced  
10 ability to sell in the bad story. They lose economies  
11 of scale, they lose the impetus for R&D, and so they  
12 have a harder time competing for other applications of  
13 those same kinds of components.

14 One of the applications is the kind that is  
15 subject to the tie, but there are non-coincident  
16 markets, not implicated directly by the tie, in which  
17 the NetScape alike has been competitively harmed by the  
18 inability of NetScape to be appealing to those who are  
19 running Windows in the Microsoft story.

20 The other version of that story is that there is  
21 the potential for harm to competition in the market for  
22 the bottleneck, for the tying good. In Microsoft, the  
23 story, the DOJ economist's story anyway, as I understood  
24 it, was that with NetScape together with Java could form  
25 a competitive threat to Windows itself, so that to

1 preserve the power over the bottleneck, Microsoft is  
2 said to have needed to weaken its potential rival in the  
3 potentially competitive browser market to preserve its  
4 power in the market in which it has much of a  
5 bottleneck. So, there is a competitive threat at both  
6 levels which might be mitigated, protecting monopoly  
7 power, by the technological harm.

8 Well, that is the bad story, but on the other  
9 hand, we are talking about product design. We are  
10 talking about innovation, and, of course, we might well  
11 have a welfare-increasing innovation in our hands, and  
12 how are we to sort out whether the innovation is largely  
13 welfare-enhancing as an innovation or whether, instead,  
14 it is just a ruse, it is just a business tactic to  
15 preserve or create monopoly power?

16 I have got a theorem or two for you. It is set  
17 in this picture. This picture has a long heritage in my  
18 life, but I need not go into that. My introduction was  
19 embarrassing enough about dates and years. A1 is the  
20 bottleneck that belongs to firm 1. It is the lever off  
21 of which the tying might go. A2 is the component that  
22 serves the ancillary function, the browser as it were,  
23 made by the same firm. So, firm A has a 1 and a 2.

24 B2 is the other firm's substitute for the  
25 product which is here tied. It is NetScape, it is the



1 other browser. NetScape could work with Windows, if you  
2 take Windows to be A1, so the horizontal line between  
3 them shows that they interoperate. They both feed into  
4 the systems market, which is what consumers want. They  
5 want systems. They want combinations of the operating  
6 system and the browser.

7           Meanwhile, C1 is lurking up there in the right,  
8 that is Java. When Java works together with NetScape it  
9 has the potential for actually performing the same  
10 functionality or maybe a degraded version, as would  
11 Windows with Explorer or Windows and NetScape. So, that  
12 is the story without the tie. Everybody interoperates,  
13 there may be some degradation of function, there are  
14 pricing issues, but that is the world without the  
15 technological tie.

16           Now, in the bottom part of the picture, along  
17 comes a new version of the operating system, A1 prime, a  
18 new version of the browser, A2 prime, they work  
19 together, but you know what, there are no APIs at all.  
20 There is no way that your NetScape can interoperate with  
21 them. There is a true technological tie here depicted  
22 on the picture. As the bottleneck holder moves from the  
23 upper system to the lower one, it implements the perfect  
24 technological tie, thereby shutting out B2.

25           The bad stories are that B2 has to go out of

1 business, it is so weakened by the inability to sell,  
2 and so if it had any other uses, like on servers, forget  
3 it, it is going to have to leave the entire space, it  
4 loses the economies of scale and scope, and then Java,  
5 Cl, has got no partner to play with, so it evolves in an  
6 entirely different direction. It is no longer a  
7 candidate for the central part of a desktop operating  
8 system. It also goes off into server land, and the new  
9 Windows survives as the undisputed champion, delivered  
10 into that throne by the technological tie. So, it is  
11 the same story, but now it is on this picture, where we  
12 can start putting symbols for pricing and costs and  
13 things like that.

14 I need to define a thought for you, the  
15 compensatory price. Just imagine that the open design  
16 bottleneck persisted even when the new system came out.  
17 The new system comes out. It is technologically tied,  
18 but imagine that the old open design system is still out  
19 there. This is just a mental exercise. Imagine it is  
20 still out there, and it is made available to consumers  
21 as well as to competitors at a compensatory price. If  
22 it is just out there and priced at an infinitely high  
23 level, it is not really a competitive force.

24 Some court might rule that it had to be given  
25 away, but that would not be a marketplace solution. A

1     compensatory price, by definition, puts the same profit  
2     margin on the use of the open access bottleneck, the  
3     same profit margin as the new system earns. The new  
4     system is the one with the tie. So, your perpetrator  
5     comes out with a tie, charges a lot for it, and that  
6     margin is now built into a compensatory price for the  
7     old open design system.

8             The theorem is that when the open design  
9     bottleneck system is still available in the market at  
10    this high compensatory price that builds in the same  
11    profit margin, then the technological tie, the new  
12    system's introduction, eliminates the competitors if and  
13    only if the new closed system is actually socially  
14    superior to the open one, and here I wrote, "Ex-post,  
15    the R&D costs," the next slide -- and I am running out  
16    of patience and so are you for this -- the next slide  
17    will also talk about the R&D costs and reach essentially  
18    the same result.

19            So, what does this say? This says that if you  
20    had a world where the open design system were still  
21    there, priced in the same high-priced way as the new  
22    system, then the marketplace would work, that the  
23    competitors would be knocked out if and only if they  
24    deserved to be knocked out on grounds of true total  
25    social welfare, that the new system is worth the R&D

1 costs, it has improved functionality, it has better  
2 costs perhaps or some balance of all of those elements,  
3 sufficient to make it better for true social welfare as  
4 economists measure it than the old system, so that this  
5 innovation is not just a hokey thing designed just to  
6 knock out the competitors under the ruse of somehow  
7 coming out with something new.

8           It is not newness for its own sake, it is not

1 technological tie and the competitors are knocked out,  
2 the theorem would say, you really should not be coming  
3 down on that kind of innovation, because according to  
4 the theorem, that is good innovation, as proven by the  
5 continued availability of the old system at a fair  
6 price.

7 Now, oftentimes the old system cannot or will  
8 not be left in place, although this kind of raises the  
9 question of why not, and maybe if this were part of the  
10 antitrust standard, that would be an impetus for  
11 companies to take some pains to keep the old systems  
12 alive. Maybe not. It does tell us, though, what the  
13 right standard is for this economic framework. If the  
14 open system is not preserved, we still have a mental  
15 standard, a but-for test, which is well adapted to  
16 technological tying for assessing whether we should  
17 condemn or smile upon the win in the marketplace by the  
18 new system.

19 That standard is whether the competitors would  
20 still be going down, still be losing, if, in the but-for  
21 world, they would not be successful, and here the  
22 but-for world is the continued availability of the open  
23 design system, the alternative, at this fairly high  
24 compensatory price that builds in the full profit margin  
25 earned by the new system, that if you want to know

1     whether or not we have an offense here or not, ask  
2     yourself the question, would the competitors have been  
3     beat anyway even if they had access to an open design  
4     version at a compensatory price?

5             This question was not asked in Microsoft. It is  
6     not asked in Microsoft today in Europe. I do not know  
7     what the answer would be, I am not a partisan in those  
8     debates, but the theorems say that is the right question  
9     to ask. That is a good standard. Just like marginal  
10    cost is a good standard for Areeda-Turner, this is a  
11    good standard when it comes to technological tying in  
12    the role of exclusion accomplished through that kind of  
13    a tie.

14            There are a bunch of caveats. The first caveat  
15    is, how do you know whether the R&D costs that were  
16    expected at the time of the decision by the  
17    technological tyer, how do you know what those really  
18    were? If they were very low, then that makes the system  
19    look better in terms of the standard. If they were  
20    expected to be higher than the skies, then it goes the  
21    other way. Part of what the fact-finder needs to do is  
22    assess the expected R&D costs as we get deep into this  
23    phase of the antitrust analysis. Obviously a tough task  
24    for the fact-finder.

25            How can the fact-finder do this but-for test?

1 Well, at least it is an organized test, the theorem  
2 tells you what to look for, but this is not necessarily  
3 an easy job for a judge and a jury in an antitrust  
4 court, to do this kind of but-for test. If you do not  
5 have this kind of a structured standard, how is the  
6 fact-finder going to in some other way decide whether  
7 the new system is really good or not? Talk about  
8 keeping science out of the antitrust case, this is  
9 science and consumer preference rolled together. How  
10 good is the innovation? I would not trust a judge to  
11 make that answer without an economic framework.

12 On the economic side, the theorems, which I  
13 think are really very powerful, they are in a very  
14 oversimplified setting, as usual, but maybe even more  
15 than normal. This setting, in which these theorems are  
16 proved, is a setting in which there are no other issues  
17 whatsoever for social welfare besides the ones that the  
18 theorems focus on, namely, the possibility of  
19 monopolization through the technological tie. All other  
20 economic imperfections have been ruled out by the design  
21 of the abstract marketplace. And we know from common  
22 sense and from economics that in marketplaces where  
23 innovation is important, there are typically all kinds  
24 of other things that can go wrong, ambiguous  
25 externalities, inappropriability of benefits of

1 innovation on the one side of the ledger and negative  
2 externalities conveyed by the innovator on others who  
3 are competing with the innovator in the market, lost  
4 profits to other market participants.

5           On the one hand, you get too little innovation  
6 because of inappropriability issues, or you get too much  
7 innovation because of negative profit externalities, and  
8 in most economic models, the ones that I teach in my  
9 classes, it is thoroughly ambiguous whether innovation  
10 comes out just right even without antitrust issues, and  
11 all of those kinds of complications must be ruled out to  
12 get these neat results that our theorems get. Which way  
13 that biases the answer is decades away from my students  
14 and yours being able to figure out, and maybe never is  
15 the right answer. I mean, in a model you can figure it  
16 out, but how the model corresponds to reality is far  
17 beyond the state of the art.

18           So, what did we learn from all of this other  
19 than the fact that you are very kind and patient? One  
20 additional lesson is that as a matter of economic logic,  
21 technological tying is real. It is a real possibility  
22 on the blackboard, in the journals, and there they may  
23 be very genuine, even strong incentives to do  
24 technological tying for anticompetitive reasons, but  
25 also for a long list of procompetitive reasons, the same



1 kinds of reasons we heard about from earlier panelists,  
2 as well as a host of other ones arising just because it  
3 is innovation, and so, yeah, you cannot just say, oh, it  
4 does not happen or it cannot happen as a matter of  
5 logic. It can happen, it may happen, and on the other  
6 hand, technological tying may be a very, very good thing  
7 in many settings.

8           The second point, which is newer and I really  
9 hope that you believe a little bit, is that there are  
10 logical and intuitive tests and, indeed, standards for  
11 analysis that would allow us to assess product design  
12 for monopolization by a tie-in. This is the kind of  
13 test that I was just talking about, the but-for being  
14 open standard with compensatory pricing. These are not  
15 easy to apply. They do organize the mind, but they are  
16 hard to apply empirically, especially in a litigation  
17 setting, and so great humility is certainly called for  
18 in this area.

19           Well, if we combine humility, due humility, with  
20 how delicate and important innovation really is, we  
21 reach the same policy bottom line that everybody else  
22 has reached, certainly no per se treatment, my goodness,  
23 but even more so in the world of rule of reason, we need  
24 to protect innovation as a process from being stultified  
25 by litigation with very, very strict and very demanding

1 hurdles in front of litigation which must impose a tough  
2 discipline on the use of antitrust in this area, both by  
3 private parties and by the agencies, and that goes  
4 largely, I think, to the first part of the test, that  
5 there really has to be demonstrated harm to competition  
6 in a relevant market through the technological tie. It  
7 has got to be causal, and taking that part of the test  
8 very seriously alone would knock down most of the cases  
9 that I have been exposed to.

10 So, that is my plea, and I thank you.

11 (Applause.)

12 MR. SALINGER: Well, we are now going to give  
13 each of the panelists a chance to respond to the others.  
14 I do not know how long Professor Feldman is going to be  
15 with us, but since there seems to be perhaps some  
16 disagreement between you and Bobby on your --

17 DR. WILLIG: You think?

18 MR. SALINGER: -- on your take on how to deal  
19 with technologically advanced markets, maybe we will  
20 start with you.

21 PROFESSOR FELDMAN: Well, let me start with,  
22 again, what we agree on, which is that we knock out per  
23 se, and I would not disagree about the importance of the  
24 harm to competition element. I begin by assuming that  
25 we are in something like a rule of reason setting in



1 fair amount of agreement here. I think technological  
2 ties can be useful. I am wary of them, and I think we  
3 have to be careful of them in certain settings that  
4 already look anticompetitive to begin with.

5 DR. WILLIG: How could I disagree?

6 We agree on the logical possibility of  
7 technological tying. We agree on the importance of

1 of the attorneys on the panel to see whether they have  
2 heard enough agreement that they feel confident they can  
3 go into court with good arguments about how to  
4 distinguish procompetitive from anticompetitive ties.

5 MR. RUSSELL: I would like to jump in with a  
6 question for Professor Feldman about this concept of  
7 specificity when it is applied to the procompetitive  
8 explanation, and I may have misunderstood what you were  
9 saying, but if I were a lawyer on the other side, the  
10 way I would characterize your position is the fact that  
11 a particular kind of efficiency is seen so often in so  
12 many products and is so powerful, which is the natural  
13 inference I draw from the fact that it is seen so often  
14 in so many products, for that reason, you are completely  
15 disregarding it.

16 PROFESSOR FELDMAN: I understand your concern  
17 about that, and maybe I can frame it again by looking at  
18 the point at which this inquiry comes up. We are  
19 already at a point where we have a monopolized tying  
20 product. We already are at a point where we have  
21 established that there is harm to competition. Now we  
22 are looking at the reasons for that, and I think that  
23 the concerns you have can be taken care of in the first  
24 two.

25 What I am concerned about is when we get to this



1 including competition for the market and ultimately  
2 having a monopoly and having a monopoly despite what you  
3 said, Robin, that we actually do not want to have its  
4 power eroded, at least so long as it is efficient.

5           The second thing I get confused about and do not  
6 really understand is this sequence where we talk about  
7 harm to competition and then say, "Oh, gee, then let's  
8 take a look and see whether there are efficiency  
9 benefits that offset that harm to competition." I mean,  
10 it seems to me that ultimately the inquiry is whether  
11 there is a harm to long-run consumer welfare, and I do  
12 not really understand the unbundling of the efficiency  
13 explanation for the practice and this term "harm to  
14 competition."

15           I mean, if I think about markets, I would think  
16 that the whole issue of why one engages in a  
17 technological tie or any other kind of tying practice  
18 has to be sort of an integrated aspect of the whole  
19 discussion of whether there is "harm to competition,"  
20 so if there is "harm to competition,"

1 DR. WILLIG: Yes, indeed.

2 MR. EVANS: But it does seem to lead to a  
3 relatively unstructured rule of reason inquiry, and I  
4 really do think, as I think many of the speakers have  
5 pointed out, that we need to start with a position on  
6 where we are in terms of priors concerning where the  
7 timing is bad and error cost and so forth, and we need  
8 to start with that, and maybe you disagree that -- that  
9 anticompetitive tying is uncommon, in which case you can  
10 state that as a prior and go forward, but it seems to me  
11 you need to start with a position before we can really  
12 get into conversations on who ought to bear the purpose  
13 and stuff like that.

14 So, I do not see how at the end of the day we  
15 can impose the burden of proof on a defendant for  
16 establishing efficiencies, as Don says, for a practice  
17 that we know is presumptively efficient. It does not  
18 make any sense to me.

19 MR. SALINGER: Michael, David in his talk talked  
20 about how he was largely agreeing with you. Is there  
21 complete agreement among the economists or is there more  
22 of a wedge there than just --

23 DR. WILLIG: Not anymore.

24 DR. WALDMAN: Well, listening to David's  
25 response, I basically agree with almost everything he



1 said. I agree that if I am thinking -- I do not think  
2 the right thing to think about is harm to competition.  
3 I think the right thing to think about is social  
4 welfare. There are lots of examples that one could  
5 come -- sort of formal models that one can show where  
6 thinking about tying as eliminating competition is  
7 actually social welfare improving.

8           So, if you wind up focusing too much on the harm  
9 to competition, you will wind up allowing or eliminating  
10 tying when, in fact, you really would not want that,  
11 because in some sense there is sort of a larger  
12 competition ex ante or something else which says that  
13 the competitive process, thought of more generally, that  
14 particular submarket where you are not allowing  
15 competition is actually a good thing rather than a bad  
16 thing.

17           Also, you know, I am not sure David exactly  
18 specified this, but, you know, so I think consistent  
19 with what he is saying, you know, when I think about  
20 kind of how do I judge these cases, I want to say let's  
21 think about the different theories in some of these  
22 situations you can automatically almost rule out as  
23 saying, well, that looks okay, it is efficiency or it is  
24 price discrimination, and at least as a first blush, and  
25 I do not do court cases, but I would have thought that





1 a little leeway in the joints and have the rule of  
2 reason apply, which is in some sense less of a burden on  
3 the plaintiff, or is it going to be a category of ties  
4 where we think intervention potentially carries such  
5 high costs, and for some that is product design, I think  
6 there are some arguments there that would require more  
7 of a showing from the plaintiff to go forward, maybe a  
8 profit sacrifice, maybe something else, and, indeed,  
9 taking that to an extreme, might there be categories of  
10 tie-ins where you really have a safe harbor absent a  
11 very strong showing for the plaintiff? That seems to me  
12 the type of thinking that needs to occur.

13 MR. SALINGER: Okay, well, now that we have  
14 found some daylight within us, as we organize these  
15 hearings, we have tried to see whether or not there are  
16 agreements on various propositions and disagreements on  
17 various propositions, and we have a set of these for the  
18 panelists to comment on, so I will turn the mike over to  
19 June to lead us in that discussion.

20 MS. LEE: Before I start, let me give Bobby a  
21 chance to respond to some of the comments.

22 DR. WILLIG: Oh, thank you.

23 Well, first of all, I was only invited to  
24 comment on Robin, and I had no problem with Robin, but  
25 these other folks, I just... .

1 MS. LEE: Please.

2 DR. WILLIG: Well, first of all, I do not know  
3 if we can go off the record here or expunge the record,  
4 but if the Supreme Court ever heard the things that have  
5 been said in the last ten minutes, there is no way we  
6 are going to get off the per se standard. I mean, if  
7 all these learned people cannot figure out rule of  
8 reason or even what harm to competition is, then I think  
9 we are going to be stuck with the per se test for  
10 another generation. So, can we go into private session  
11 so the Justices cannot hear us? I am just kidding, of  
12 course. I think we actually know a lot more than the  
13 last ten minutes has suggested.

14 Well, let me pose to Michael and David and I  
15 guess Mark, too -- and, Robin, you are free of this  
16 mistake, I would say --

17 PROFESSOR FELDMAN: It is the only one I am free  
18 of.

19 DR. WILLIG: No, that is okay.

20 The hard case, I agree with all of us who have  
21 said that price discrimination ought to be very, very  
22 presumptively innocent for a wide variety of deep  
23 economic reasons as well as just commonplace  
24 observations that the most competitive of industries are  
25 full of instances of price discrimination, at least one

1 of us has written that it is parador superior (ph) to  
2 have price discrimination and so forth. Price  
3 discrimination is basically a good thing. There are  
4 counter-examples, but we do not know how to spot them.  
5 So, we certainly ought to be allowing business the  
6 freedom to do price discrimination. And we all  
7 understand that a very important function of lots of



1 with those cases? Do we say the jury or the judge ought  
2 to weigh the pluses and the minus and be a meter of  
3 consumer welfare? Is the innovation permitted and  
4 motivated by the price discrimination? Together with  
5 the benefits of price discrimination, together --  
6 sufficiently a plus that the harm to consumers in the  
7 longer run from the loss of these important competitors  
8 does not outweigh it? Do we have a consumer welfare  
9 meter? Do we know how to do that? Do we trust  
10 ourselves, no less judges and juries, to do that? That  
11 is one possibility, quote, "the consumer welfare  
12 standard," Mark.

13 The other possibility is that we say, look,  
14 there is a legitimate rationale, namely, the price  
15 discrimination and the innovation. Yeah, you cannot  
16 make an omelet without breaking eggs, competition has  
17 losers, successful products do raise some legitimate  
18 monopoly power for a while, and we have got to let the



1 DR. WILLIG: No, just the first paragraph and  
2 the like. A hundred pages of footnotes, Mark, I cannot  
3 do it.

4 MR. POPOFSKY: And none of them cited you, I  
5 think we have pointed out.

6 DR. WILLIG: That was the point.

7 MR. POPOFSKY: Nothing from 25 years ago. I  
8 think to try to answer your question, Bobby -- since you  
9 put the pitch right over the plate, let me see if I can  
10 hit it over second base.

11 As the hypothetical in my article implied, which  
12 is close to yours, there is a very sympathetic case  
13 there that the Microsoft Court of Appeals vague rule of  
14 reason standard is the last thing you want courts and  
15 juries to be doing in a case like that in some vague  
16 way, and the way Professor Salop somewhat suggests in  
17 his articles, reckoning up the social costs today  
18 against the social benefits tomorrow, you take that  
19 logic to the extreme, you would have courts regulating  
20 significant aspects of the economy. That cannot be what  
21 the rule of reason is all about.

22 So, in devising the right legal rule -- and I am  
23 not sure what it is, to be honest, to answer your  
24 precise hypothetical -- you want to perhaps take into  
25 account what would be the detrimental impact of

1 innovation on intervention, and that might mean you  
2 structure the rule of reason differently, it might mean  
3 you go to the profit sacrifice test, but you certainly  
4 do not want what you painted as the boogeyman of juries  
5 just saying, what is the net contribution to social  
6 welfare of this conduct? That cannot be what we are  
7 doing.

8 DR. WILLIG: We can quote you on that?

9 MR. POPOFSKY: Oh, yeah. It is on the record  
10 now.

11 DR. WILLIG: Okay.

12 PROFESSOR FELDMAN: May I point out what is one  
13 other point of agreement among the panelists. In  
14 addition to the notion that per se is not the way to go,  
15 an open-ended rule of reason also is not where we should  
16 go. There must be some type of structure in the rule of  
17 reason for the benefit of all the parties involved. Are

1 stifling competition and therefore are unreasonable per  
2 se. I do not think anyone on the panel agrees with  
3 this, but please correct me if I am wrong.

4 Okay, so let me flip this question a little bit.  
5 Does anyone on the panel think that tying should be per  
6 se legal?

7 (No response.)

8 Okay. Then let me just -- backing down from  
9 that a little bit, are there any tying arrangements that  
10 are always or nearly always procompetitive and thus  
11 appropriate candidates for a safe harbor?

12 Bobby and some others discussed a little bit  
13 that tying for price discrimination reasons should not  
14 be illegal.

15 MR. EVANS: But then he backed away from that.

16 MS. LEE: Yes, so --

17 DR. WILLIG: Yeah, because I think typically it  
18 is hard to separate.

19 MS. LEE: Right.

20 DR. WILLIG: -- the enabling of price  
21 discrimination from the exclusion. I penciled on my  
22 notepad that tying arrangements are nearly always  
23 procompetitive where there are ample choices available  
24 to consumers among alternatives, both at the level of  
25 the tying good and at the level of the entire system of

1     tying tied to the tied good, i.e., if there are other  
2     operating systems and browsers or other MP3 players and  
3     MP3 formats, if there are system alternatives available  
4     in ample supply, then within that framework, I think we  
5     should have per se legality.

6             MS. LEE:   Okay.  Does anyone else have  
7     categories for which they would say that tying should be  
8     per se legal?  Don?

9             MR. RUSSELL:  I just want to ask a follow-up  
10    question for Bobby.  When you say there are  
11    alternatives, are you saying there is no market power or  
12    is that different?

13            DR. WILLIG:  No, ample, ample alternatives.

14            MR. RUSSELL:  But is it basically a market power  
15    test that you are advocating there?

16            DR. WILLIG:  Well, we gave up perfect  
17    competition a long time ago, but, you know, workably  
18    competitive set of alternatives, if you will.

19            MR. POPOFSKY:  No power of antitrust concern,  
20    Bobby?

21            DR. WILLIG:  No?

22            MR. POPOFSKY:  Power of antitrust concern?

23            DR. WILLIG:  That is in the eye of the beholder,  
24    Mark, yeah.

25            MS. LEE:  David, did you have a comment?

1           MR. EVANS: Yeah, well, I think what we have  
2 just -- I think what Bobby just said is that where there  
3 is not significant market power, that ought to be per se  
4 legal. I think that the debate in question, I think  
5 this is one of the questions you ask later, is what  
6 exactly does that mean?

7           I am not exactly sure what the answer to that is  
8 from the state of the theory and empirical evidence at

1 are procompetitive. Does everyone agree with that?

2 PROFESSOR FELDMAN: I would not agree that most  
3 ties are procompetitive. I would not fall into that,  
4 certainly not -- not in the industries or areas that I  
5 have talked about. I certainly believe that there are  
6 many procompetitive thatm.80000 .muld not fall into that,



1 both technological and contractual, in our economy that  
2 do impel purchasers to buy two products together are  
3 procompetitive. So, it is not just antitrust, and it  
4 is -- it does not comment on whether the tie is  
5 artificial or not, which some of this discussion has  
6 suggested, just empirically, looking out at all  
7 arrangements, both technological, things just put  
8 together, and contractual, that impel, not force, but do  
9 result in purchasers actually buying two products  
10 together, that in that domain we are apt to see  
11 procompetitive effects rather than anticompetitive ones.

12 DR. WALDMAN: I would certainly agree with that.

13 MR. RUSSELL: Yes.

14 MR. EVANS: Yes.

15 MS. LEE: Robin?

16 PROFESSOR FELDMAN: I'm afraid I will stay as  
17 the stick in the mud here. I can follow all of that  
18 language with all of the caveats we put in place as we  
19 discuss it. I can imagine that language taken out of  
20 context in which suddenly the conclusion becomes that  
21 tying is always procompetitive. Then, if tying is a  
22 good thing, what are the antitrust agencies doing  
23 looking at tying at all? That is the pendulum swing  
24 that I am very worried about.

25 So, when the economists are all here placing





1 often have very unique characteristics that make them  
2 very different from other arrangements, even at the same  
3 time that you could look at some aspects of them and say  
4 they are very similar. So, I think that is a very fuzzy  
5 concept for me at least.

6 MS. LEE: Mike Waldman, do you have anything?

7 DR. WALDMAN: Well, I think it is evidence, but  
8 I think it is not definitive evidence, so it is one  
9 thing that you could weigh in terms of trying to make a  
10 decision as to whether it is procompetitive or  
11 anticompetitive.

12 DR. WILLIG: I think it is useful evidence, but  
13 it needs to be probed for all the elements that might or  
14 might not make the two circumstances the same or  
15 different.

16 MS. LEE: Okay, let's move on to the next one.

17 The time has come to abandon the per se label  
18 and refocus the inquiry on the adverse economic effects,  
19 and the potential economic benefits, that the tie may  
20 have.

21 And everyone I believe agrees with this, but  
22 please let me know if you do not.

23 (No response.)

24 MS. LEE: Okay, I am going to take that as  
25 agreement.





1 and something that we need to use and need to use  
2 better.

3 I would also, though, like to make a pitch,  
4 which some may disagree with, that it is sometimes  
5 equally useful to look at intent, not in a sense of,  
6 well, they wanted to take customers away from a  
7 competitor, which I think is completely meaningless in  
8 antitrust terms, but more in the situation, as an  
9 example that Robin has given, if you look at the timing  
10 when a tie was first introduced, if you look at the  
11 documents within the company explaining why they were  
12 adopting the tie at that point in time, I think that  
13 will often give you a very useful indicator whether they  
14 are doing this for beneficial reasons or whether they  
15 are doing it for anticompetitive reasons.

16 MS. LEE: What about the situation in which we  
17 do not have a preexisting theory that nicely fits the  
18 facts? Do we have the economic tools necessary to  
19 determine whether or not a given situation is pro or  
20 anticompetitive?

21 DR. WILLIG: Oh, we could make up new theories  
22 at the drop of a hat. It is putting them to the facts  
23 that is trickier.

24 PROFESSOR FELDMAN: I do not know whether this  
25 is where the question is going, but there are some

1 suggestions in the legal literature that we have to take  
2 hands off approach because economics is not clear enough  
3 or does not give us tools that we can apply in the  
4 judicial setting. In other words, we should be doing



1     dissenting in Kodak, a tying case in part, back in 1993,  
2     where he said practices normal or ubiquitous in  
3     competitive markets can take on an exclusionary hue when  
4     practiced by a monopolist, and that comment has always



1     undoubtedly be clients that would come to you who  
2     probably do have market power, who probably are trying  
3     to force customers to take two distinct products, and I  
4     think that the answer to your question -- that Bobby  
5     will forgive me for stating this out loud -- we do not  
6     have those answers today because we have been living  
7     under this bizarre per se rule of law for so many years.

8             So, in terms of the legal answer to that  
9     question, I think at this point it is very hard to say  
10    other than the very general concept of the rule of  
11    reason that is out there and the kinds of factors that  
12    you would look at in any rule of reason case, but over  
13    time, quite likely, I think refinements of that will bet over



1 DR. WILLIG: Right, it is not an element of it.  
2 It may cause it indirectly, but it is not -- yes.

3 MR. EVANS: Putting aside my previous  
4 qualification that I do not think you have adequately  
5 addressed on harm to competition, yes, I agree with  
6 that.

7 MS. LEE: Anyone else?

8 DR. WILLIG: Well, don't be silent, members of  
9 the panel. Let's all agree on this.

10 MS. LEE: Mike, do you have anything to say?

11 DR. WALDMAN: Despite my setting antitrust  
12 policy back ten years, I still think that harm to  
13 competition is not the right way to think about it, so I  
14 am a little fuzzy on an answer to which I do not think  
15 is a relevant question.

16 MR. EVANS: And in terms of -- since Michael  
17 just teed that up, I did not take that as my mandate in  
18 answering your question, but since you have teed up, you  
19 know, the use of the merger guidelines framework for  
20 thinking about harm to competition, I do not actually  
21 think for Section 2 that is how the courts do or should  
22 think about things. I mean, we allow monopolies, we  
23 allow them to do things that raise prices, we want them  
24 to do all sorts of things, and I am not sure that I  
25 would want to import a merger guidelines framework into

1 Section 2, but --

2 DR. WILLIG: Well, we allow harm to competition.  
3 The question is, do we know it when we see it?

4 MR. EVANS: Yeah, that is the question.

5 DR. WILLIG: That is the question.

6 MS. LEE: That is indeed the question.

7 MR. EVANS: Yep.

8 MS. LEE: Can we skip to page 9, Brandon?

9 Antitrust law should treat ties where the tied  
10 product is used in variable proportions and ties where  
11 the tied product is used in fixed proportions with the  
12 tying product differently.

13 Should the law make such a distinction? So,  
14 essentially when we are talking about tied products used  
15 in variable proportions, talking about instances such as  
16 metering, such as the issue in Independent Ink, examples  
17 of fixed proportions tying include Jefferson Parish and  
18 Microsoft.

19 Mark, do you have any thoughts on this?

20 MR. POPOFSKY: You know, I think we are still at  
21 a point where, you know, one could argue there is no  
22 reason for differentiating under either the rule of  
23 reason or the applicable Section 2 test between them,  
24 but plaintiff is going to need a story of that magic  
25 thing called harm to competition. It does not seem to

1 me that whether the story makes sense is something that  
2 is cognizable, something that really sheds light on what  
3 is going to happen with the practice depends on what  
4 type of tie it is.

5 As Bobby suggested, at the outset, you can  
6 imagine stories of variable proportion ties, where there  
7 is some anticompetitive aspect to it, and certainly you  
8 can imagine fixed proportion ties which are  
9 competitively benign.

10 MS. LEE: Robin, I know you have to go shortly.  
11 Do you have any comments?

12 PROFESSOR FELDMAN: I do not have anything to  
13 add to what Mark said.

14 MS. LEE: Michael?

15 DR. WALDMAN: I mean, I think there is a  
16 distinction in the sense that the set of theories that  
17 apply are different, and so one has to be careful in  
18 that sense. So, from a -- the variable proportions  
19 case, there is the efficiency issues concerning  
20 monopoly, something to competition, trying to use tying  
21 to avoid these inefficiencies, on the other hand, there  
22 is price discrimination arguments, and that is only  
23 going to apply in the variable proportions case, not the  
24 fixed proportions case.

25 So, as long as there is a clear understanding

1 that these two different types lead into different  
2 theories, and so you want to be sort of focusing on the  
3 relevant theory, then I think that is really the issue  
4 in terms of thinking about those two different types.

5 DR. WILLIG: Yeah, I would much rather, if we  
6 are going to try to endorse the proposition, substitute  
7 for variable proportions the idea of price  
8 discrimination as a cause and motivation of the tie.  
9 Think about the radio, the prototypical radio in the  
10 automobile case. There is only one radio. You would be  
11 crazy to have two radios.

12 But on the other hand, you could have a radio  
13 and CD player and MP3 player and super base speakers, or  
14 just the very simple stripped-down radio, with or  
15 without satellite. That is still economically variable  
16 proportions, but would the law recognize it if that were  
17 the phrase that we were to go with? So, I think the  
18 idea of price discrimination as a concomitant of the tie  
19 would be the right way to structure this sort of  
20 proposition.

21 MR. SALINGER: If I can push you on that one, I  
22 think there is general agreement that the metering type  
23 of tying is often about price discrimination, but if you  
24 take the car and the radio example, that while the price  
25 discrimination might explain bundling, typically the

1 opportunities for price discrimination are greatest with  
2 mixed bundling, which would not be tying from a legal  
3 standpoint, and so you would -- if you observe tying,  
4 then at least if you are not careful about it, you might  
5 use the Ordover Willig type of test to say, look,  
6 therefore, go on your profit opportunity, it must be  
7 anticompetitive.

8 DR. WILLIG: You are saying an important part of  
9 the whole stratagem would be offering the car without  
10 anything, a hole in the dashboard, at all, that would  
11 make it even more effective to price discriminate.

12 MR. SALINGER: That is right.

13 DR. WILLIG: Well, that is a possibility, but I  
14 think it is arguable whether that is actually true or  
15 not.

16 MR. SALINGER: Well, Mike, do you disagree that  
17 in general the price discrimination argument pushes  
18 towards mixed bundling as distinct from tying?

19 DR. WALDMAN: I think that is right, but I am  
20 not -- I would have to go back and think about it some  
21 more. That is my best memory, but that is not something  
22 I reviewed right beforehand.

23 MS. LEE: Let's go to the next proposition.  
24 Antitrust law should treat contractual ties and  
25 technological ties differently.

1           PROFESSOR FELDMAN: Well, since I am about to  
2 head out the door, and I have already commented on this,  
3 let me just add one thought. I think there is a real  
4 problem in doing that given the state of technology in  
5 many of our industries. You drive behavior towards  
6 technological ties, you just encourage people to change  
7 their products in order to avoid enforcement. So, you  
8 distort choices, and you are not effectively catching  
9 the behavior that you want to catch. So, I think it is  
10 a problem for that reason. There are product design  
11 issues you have to deal with when you are talking about  
12 technological ties, but I would be very wary of  
13 something that says we focus only on contractual ties  
14 and not technological ties.

15           And as my last comment, I would like to point to  
16 the early 1900s. Treating contractual ties and  
17 technological ties differently is so close to the theory  
18 that the courts started out with, that is, antitrust  
19 enforcement only applies to contractually based  
20 behaviors and not to behaviors that are intellectual  
21 property based. That was such a disaster because  
22 suddenly everybody organized their affairs so that the  
23 anticompetitive behavior revolved around patents.  
24 Eventually the courts and Congress had to respond to  
25 that. I think we would be tempting the same kind of



1 behavioral changes now, a hundred years later.

2 Thank you for having me. I am so sorry that I  
3 have to leave, but I do need to get back to California,  
4 and I appreciate being included in this panel.

5 MS. LEE: Thank you for coming.

6 David, I under --

7 MR. EVANS: Yeah, so three quick comments. If  
8 you adopted the kind of structured rule of reason  
9 approach that I suggested with a high hurdle for  
10 plaintiffs, then no, I would not make technological ties  
11 different from contractual ties. I would have the same  
12 high standard for both of them. So, that is point  
13 number one.

14 Point number two, if you told me that the --  
15 that it was going to be an unstructured rule of reason  
16 analysis but I had the possibility of making a  
17 distinction between technological ties and contractual  
18 ties, then yes, I think my prior would be that  
19 technological ties are even more likely to be  
20 anticompetitive and more likely to lead to errors than  
21 contractual ties, so then I would make a distinction.

22 But third, and this would be my caveat to that,  
23 I have not looked at these cases for a long -- for a  
24 while, but my impression of the technological tying  
25 cases is that you basically have courts that really do



1 see only bad. And the cases where it has basically been  
2 mixed, the defendant has won. And whether or not the  
3 legal rule is going to be a profit sacrifice, a  
4 structured rule of reason, I think that is really  
5 telling as a descriptive matter of when those ties get  
6 condemned.

7 MR. RUSSELL: My view is that what Mark just  
8 described is almost inevitable, because I think judges  
9 feel quite comfortable in saying we will not let you  
10 enforce this contract. They feel extraordinarily  
11 uncomfortable in saying you should have designed a  
12 product that would -- they feel perfectly qualified to  
13 do one and completely unqualified to do the other, and I  
14 think the difference that is perceived by most courts  
15 and judges is not so great in reality as what they are  
16 perceiving, but I think inevitably they will perceive  
17 that, and they will treat them differently, whether they  
18 articulate a formal rule for doing so or not.

19 MS. LEE: Bobby?

20 DR. WILLIG: Thank you.

21 I think at bottom the intellectual framework for  
22 judging both can be the same, but I think the facts will  
23 inevitably come in somewhat differently, because in  
24 part, along with a technological tie comes a product  
25 design decision which is far more apt to have an

1 efficiency rationale or excuse attached to it as opposed  
2 to lawyers saying, oh, I just had to write the contract  
3 that way, and inevitably there is more efficiencies that  
4 the court has to deal with, and I think that is part of  
5 what Mark was just saying.

6           Also, from the point of view of social policy, I  
7 think there is more at stake, because I do think  
8 innovation is more delicate or more vulnerable to  
9 suppressing it than we are to a suppression of the  
10 writing of complex tying contracts, and so it is right  
11 to give more respect to the implementation of the tie  
12 through product design.

13           But I do want to say that the right intellectual  
14 framework will give us the ability to avoid the abuse of  
15 the respect given to innovation, the false product  
16 design. It may be a little bit new, but still the main  
17 point is to exclude. In the situation like that, the  
18 test that I have suggested, and I think we are all  
19 pretty much on the same page with trying to uncover that  
20 kind of innovation, that we should proceed right to a

1           Exclusive dealing is a rule of reason offense,  
2     requiring a plaintiff to show that the defendant has  
3     significant market power, the exclusivity arrangement  
4     serves to deny market access to one or more significant

1 DR. WILLIG: -- the part that says the  
2 exclusivity arrangement serves to deny market access to  
3 one or more significant rivals. As long as the second  
4 part of that sentence is really treated very seriously  
5 and endemically, then I am feeling somewhat comfortable  
6 about it, but just denying market access itself does not  
7 strike me as anticompetitive or as creating harm to  
8 competition, but if it does, then -- excuse the phrase,  
9 gentlemen -- but there is harm to competition, if as a  
10 result of the denial of access competition is harmed,  
11 the sign of that is output is lower and/or price is  
12 higher, and so we are definitely in the framework of  
13 having found that there is a problem.

14 We are still, then, looking at the next step,  
15 which is to decide whether the process is essentially a  
16 competitive one or is it an anticompetitive one. So, we  
17 are not done. But I guess that is what Hovenkamp has in  
18 mind here.

19 MS. LEE: Don, do you have any reaction to the  
20 statement?

21 MR. RUSSELL: I agree with the statement.

22 MS. LEE: Okay. Anyone else?

23 (No response.)

24 MS. LEE: Okay.

25 MR. SALINGER: I mean, just to follow up a

1 little bit, I mean, what the statement seems to be  
2 saying is that tying should be treated comparably to  
3 exclusive dealing. One might argue that exclusive  
4 dealing is a more problematic practice from an antitrust  
5 standpoint. So, is there agreement here that tying is  
6 at least as problematic a practice as exclusive dealing?

7 DR. WILLIG: No.

8 MR. EVANS: No.

9 DR. WALDMAN: I do not necessarily see it that  
10 way. It is a question of is the evidence there, is the  
11 price going to be higher, is the output going to be  
12 lower? So, it could be the case that it is less  
13 problematic because it is less likely to cause the price  
14 to go up and supply to go down, but that the test is  
15 still the same. So, I think you want to be a little  
16 careful in terms of kind of that sort of analogy, the  
17 way you are flushing out the analogy.

18 MR. POPOFSKY: One further comment on that,  
19 Michael. In all these vertical restraint cases, these  
20 labels, exclusive dealing, tying, bundled discounts,  
21 they are all imperfect ways of describing what Barry  
22 Nalebuff has described as a unitary phenomena where you  
23 are just changing it slightly. So, I think we want to  
24 be a little careful in saying one is inherently more

25 ~~25~~ ~~problematic than the other~~ ~~other, is more~~ ~~beneficial than the other~~ .30 cmV





1 is just this stuff out there and we just need to look at  
2 competitive effects and that is what we should do, I  
3 think that is problematic because that kind of puts us  
4 back into this rule of reason stew where, you know,  
5 everything just goes into it, and we think that juries  
6 will come out with the best result.

7           So, I think we actually do need to pay attention  
8 to the kinds of practices, make some progress with the  
9 economics, come up with some priors and some  
10 understanding of what the rules should be, recognizing  
11 that Mark is right, that there is going to be some  
12 substitution if we have different standards in different

1 concluding. Anyone? Bobby, you do not want the last  
2 word?

3 DR. WILLIG: Oh, I would like the last word. I  
4 am still worried about the Hovenkamp --

5 MR. EVANS: Could I suggest you not go first if  
6 you want the last word?

7 DR. WILLIG: Oh, I see what you mean. I would  
8 like to hear your reaction.

9 It does sound in the Hovenkamp proposition like  
10 there is an engagement of a consumer welfare meter. It  
11 reminds me of the situation which is simpler but still  
12 maybe imponderable to us, a competitor innovates, is  
13 very successful, the innovation knocks out competitors,  
14 so a year later, the competitors are gone because they  
15 have been beat by the innovator, whereupon the  
16 monopolist really has the monopoly position, at least  
17 for a while, until the next generation of competitors  
18 come along.

19 We honor the process. We like innovation. If  
20 we compare consumer welfare before the innovation to  
21 consumer welfare a year later, after the competitors are  
22 gone, it could be that prices are up and output is down,  
23 although that happened through a process that we  
24 basically honor and we expect another few years will go  
25 by and the world will be a better place. That is a very

1 real sort of scenario, I think, and I think applying the  
2 consumer welfare meter to that situation would be  
3 telling us wrongly that innovation is destructive.

4 I am kind of worried that when we are talking  
5 about Section 2 and all of these kinds of practices,  
6 exclusive dealing and/or tying, that the Hovenkamp  
7 formulation would be condemning the process, and I think  
8 in a way that would be unfortunate for antitrust.

9 What do you think?

10 MR. POPOFSKY: Well, I am going to go next,  
11 because one of the great things about hiring Bobby as an  
12 expert, which I have, is I can go after him and not give  
13 him the last word.

14 DR. WILLIG: Redirect, recross?

15 MR. POPOFSKY: Your concern is well founded,  
16 Bobby, why don't courts condemn monopoly pricing? After  
17 all, a court could argue we are better off having lower  
18 prices today even if it deters innovation tomorrow.  
19 There are in the law safe harbors. There are in the law  
20 ways of structuring the analysis, whether it is  
21 structured rule of reason, Ordover-Willig or other  
22 things, that will filter out, at least in my view, the  
23 most troubling scenarios, such as designing the better  
24 mousetrap being found anticompetitive, something we  
25 should not have done, and the challenge is to really, in

1 a particularized way, as David Evans was suggesting, to  
2 figure out what those are.

3 DR. WILLIG: Well, let's do it.

4 MR. POPOFSKY: The next panel.

5 DR. WILLIG: Oh.

6 MS. LEE: Anyone else? Yes?

7 DR. WALDMAN: I actually want to go back to  
8 something David was saying I think similar to what I  
9 have said, which is in terms of the case, I think what  
10 is very important is not to just have an existence group  
11 that some smart economist sat somewhere and came up with  
12 a theory that this sort of matches on the surface. I  
13 think that really, given the prevalence of efficient  
14 tying, I think you really want to make sure that the  
15 facts of the case fit the theory. Otherwise, you are  
16 likely to make lots of mistakes, and I think that when  
17 you go to a rule of reason approach, that is really  
18 something that needs to be emphasized.

19 MR. EVANS: I will just make one sort of  
20 technical comment, which probably is not a good way to  
21 end my discussion, but we have kind of gone back and  
22 forth in the discussion between consumer welfare and  
23 total welfare, and probably for this area and lots of  
24 other areas in Section 2, I mean, it really makes a  
25 difference whether you are talking about consumer

1 welfare or total welfare, and it also makes a difference  
2 in whether you are talking to economists, because,  
3 Michael, you are probably in a better position to tell  
4 me whether this is true or not, but my sense is that  
5 almost all the theories talked about social welfare, and  
6 the courts talk about consumer welfare, and the  
7 connection between the social welfare results and the  
8 theory and the consumer welfare results that the courts  
9 presumably care about are not quite as tight as we might  
10 like them.

11           So, maybe another panel someday, another topic  
12 ought to be should there be a total welfare standard  
13 instead of a consumer welfare standard? It would make  
14 it easier for the economists.

15           MS. LEE: Please join me in thanking our  
16 panelists for their presentations and our discussion.

17           (Applause.)

18           (Whereupon, at 12:56 p.m., the hearing was  
19 concluded.)

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1 C E R T I F I C A T I O N O F R E P O R T E R

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