

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

5                                   April 10, 2002

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7                   The above-entitled conference was held on  
8                   Wednesday, April 10, 2002, commencing at 9:40 a.m., at  
9                   the Federal Trade Commission, Room 432, 6th Street and  
10                  Pennsylvania Avenue, N.W., Washington, D.C., 20580.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

8           The PTO shoulders a tremendous burden and  
9 responsibility in annually reviewing huge numbers of  
10 patent applications and deciding which deserve the patent  
award. Over the years, the PTO has demonstrated its

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

1 received a patent on a class of antibodies.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

18 I live in the real world of counseling clients  
19 and litigating for clients with claims that are drafted  
20 on the cheap and then get asserted in litigations, with  
patents, as the Supreme Court said in Graham -- I don't-68.25 0

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

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

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

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

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

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

1       paid a fortune to be free of that uncertainty.

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

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

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

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

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





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

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

12           The Commission came back with 35 recommendations.  
13 Some of them, over the years, have been adopted but in  
14 general that effort never seemed to take root. So I  
15 would hope, as somebody that practices in this area and  
16 confronts these issues day to day, that this Commission  
17 and the Department will seriously consider the need for



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

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

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

13 MS. SCOTCHMER: Yeah.

14 MR. COHEN: Yeah.

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

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

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

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

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

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

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

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

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

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

18 And it's more than simply wiping out past  
19 investments. It's what do you tell clients about the  
future patentability of an invention, whether to keepipi TDj -20-

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

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

5 With those two disclaimers and deferences on the

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

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

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

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

21           MR. COHEN: Roger.

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

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

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

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



1 criteria for issuing patents and determining  
2 infringement.

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

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

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

17 PROF. RAI: I think Scott was first.

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

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

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

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

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

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

24 MR. COHEN: Scott.

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

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

3 MR. COHEN: Yes.

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

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

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

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

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

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

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

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

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

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

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

1 nonobviousness.

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

5           MR. COHEN: Stephen.

6           MR. KUNIN: Well, standards of patentability is  
7 probably my favorite subject. There are a couple of

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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





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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

1 MR. COHEN: Mark.

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

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

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

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

25 Another point, I think this relates to Scott

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

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

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

14           So that really leads me again to say maybe when  
eff' TD (8) Tj lp5 -it,ally learaised. Many of the6e was

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

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

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

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

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

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

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

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

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

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

25           And this is a serious problem in software because





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

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

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

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

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

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

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

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

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

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

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

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

8                   And I'm doing that with a view toward trying to  
9 sort out how should we think about patent scope or patent

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

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

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

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



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

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

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

980D (gTj 6cumulaufacnes5 is th98.2D so, of course) Tj 6122ir incentives we

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

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

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

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

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



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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

25 And indeed both of those things also bear on

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

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

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

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

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

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

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



1           so these two paper cups will have patents.  So what?  The  
2           real question is do those paper cups infringe each other?  
3           If those two paper cups both have patents, they both meet  
4           the bar for patentability, the standard for patentability



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

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

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

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

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

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

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

8 So there's a lot of sources for the history. And  
9 the view seems to be that the no-change language was  
consensus gained, but the cite to it's cat7dhkissTj - ked1

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

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

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

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

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

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

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

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

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







1 obvious.

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

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

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

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

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

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

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

9 MR. COHEN: Arti.

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

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

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

1 innovation policy.

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

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

5 And essentially the examiner has to establish a  
6 prima facie case of unpatentability on any of the  
7 patentability criteria. And of course applicants have an



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

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

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

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

1 matters of law.

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

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

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

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

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



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1 standard becomes important.

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

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

17 MR. COHEN: Salem.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

10 MR. PARKHURST: I was just going to say I think  
11 it's interesting. Salem has just suggested maybe a study



1                   MR. KUNIN: I'll try to be brief here, but I felt  
that maybe we ought to just briefly meimt I felt

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

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

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

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



1 success.

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

1 into the procedures.

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

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

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2 **AFTERNOON SESSION**3 **(2:04 p.m.)**

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

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

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

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

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

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

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

21           MR. COHEN: Salem.

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

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



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

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

11          MR. COHEN: Arti.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

16 MR. COHEN: Scott.

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

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

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

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

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

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

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

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



1 reasoning.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

22 MR. COHEN: Salem.

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

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

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

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

11 PROF. THOMAS: I'm reluctant to speak with the  
12 preliminary discussion that might have already occurred,  
13 but I think Mr. Kunin has already raised reality, which  
14 is the Federal Circuit is making it extremely difficult  
15 for the U.S. PTO to reject applications where there is

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1 allow applications to issue.

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

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

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

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

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

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

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

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

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

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

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

1                   So I don't go quite so far as the one article to  
2                   say that we ought to get rid of the written description  
3                   requirement altogether, but I'm sort of teetering on the  
4                   brink of that proposition. But mostly to draw attention  
5                   to the fact, again, as I said just a minute ago, that I



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

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

12 MR. COHEN: Steve.

13 MR. KUNIN: I want to make a brief comment on what  
14 Mark Janis was saying in terms of the state of the  
15 written description requirement. I would submit to you,  
16 based upon my own personal experience in dealing with the  
17 substantive patent law treaty negotiations, that when the  
18 United States delegation discusses the substantive  
19 written description requirement in terms of Regents of

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

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

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

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

18 And while I understand Jay's frustrations,

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1                   And I think to a large degree this aspect of all  
2                   you need is one and you're in the door, is maybe some  
3                   aspect of perhaps where the academic discussion could

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

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

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

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

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

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

1 description are tied expressly in Fiers.

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

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

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

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

19 MR. COHEN: Let's try Arti.

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

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

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

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

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

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

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

5 MR. COHEN: Jay.

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

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

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

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

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



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

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

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

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

19 I certainly agree with that, and I think that's  
20 precisely the problem in cases like Eli Lilly is that  
people come from a chemistry perspD (yly) Tj -6s39.D.s in ceeveo

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

3 PROF. RAI: Exactly.

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

7 PROF. KESAN: Yes. I just wanted to follow up on  
8 a couple of points on written description and enablement.  
9 Actually, in the software area regarding the actual  
10 enablement standard about whether it's trivial  
11 experimentation, reasonable experimentation, undue

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

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

6           Judges are not supposed to bring to a case their  
7 individual expertise from their high school science or  
8 Ph.D. course. They're supposed to be judges of the law  
9 and based upon a record. So it really troubles me on the  
3 (5dl exper251.5 -rom their 128) Tj 61.5 -2 their h.D. coubackgD (nds bu

1 expertise in deciding a case.

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

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

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

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

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

1 cover.

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

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

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

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

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

1 that, and I think that's good.

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

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

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

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

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

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

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

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

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

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

20 MR. COHEN: Steve.

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



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

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

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

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

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

5 MR. COHEN: Jay.

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

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

9 PROF. THOMAS: But I just want to stress more how  
10 important continuation practice is from the  
11 practitioner's perspective because it effectively is a  
12 way to get around the broadening reissue requirement.

1 that can be used to enable strategic behavior.

2 MR. COHEN: Salem.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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





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

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

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

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

1 for very obvious reasons.

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

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

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

1 issue a patent.

2           Instead, what I suggest is that if -- there are  
3 two concerns. One concern is that private parties might

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

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

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

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

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



1 turn around and take a license.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

16 I talk about that in my other work when we think  
17 about the incentive to commercialize as a focus. If  
18 that's a benefit, there are costs, and this is explored,  
I think, reat18

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

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

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

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

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

4 Let's try to summarize and add all this stuff up  
5 together. Well, I completely agree with you, Jay, and I

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

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

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

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

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





1           Instead of coming together under -- where they're  
2 forced to come together under a strong property regime,  
3 they go other places. If they're the ones who have the  
4 information, why not put them together? Maybe it's not  
5 such a bad idea, and maybe they'll be able to clear those  
6 transactions just fine.

7           We also want to then think a little bit about how  
8 we're going to do this system. The Federal Circuit has a  
9 couple of innovations. It turns out it's a court that  
10 has gone quite far in using Rule 11 sanctions against  
11 patentees.

12           The Judin case is a stark example. You sue me  
13 for infringement. You have no idea whether I infringe.  
14 That's a problem. Rule 11 sanctions. You pay me. Your  
15 lawyer pays me. Your appellate lawyer pays me. That's  
16 the result in Judin. That's not insignificant. Judin  
17 was a case about infringement. Maybe we could do the  
18 same thing with validity.

19           Cellpro is a case about opinions of counsel in  
20 part. Again, the Federal Circuit educates us. What's a  
21 good opinion of counsel?

22           Cellpro, big sanction case because there's a bad  
23 opinion of counsel, but we learned from that. So maybe  
24 what we do is the following: maybe we require patentees  
25 to actually have a meaningful view of the validity of



1           No one's perfect. There will be costs to this  
2 system. The biggest cost, of course, is litigation, and  
3 litigation is a big cost. But when we try to ask  
4 ourselves how we're going to administer questions like  
5 gee, this really is a good patent ex ante, before we have  
6 any idea where the technology is going, I think that's a  
7 hard question to answer.

8           And, in fact, the uncertainty there, which is  
9 often argued as a reason why there are increased  
10 transaction costs, because it's hard to evaluate, you  
11 have to keep in the mind the following. I'm a patent  
12 upstream technology. I have no idea what downstream uses  
13 there will be.

14           If other people are interested in doing work --  
15 let's assume I have no idea where the big commercial  
16 utility is -- I want to license everyone in the room in  
17 the hope that they find a commercial utility, because  
18 then I get a piece of that pie.

19           So, in fact, breadth upstream might not be such a  
20 bad idea as long as the nonobviousness requirement is  
21 such that downstream folks can get patents too, then we  
22 have to negotiate with each other.

23           There will be costs to those negotiations, but we  
24 have to come to the table and talk to each other.  
25 Forcing us to do that if we have the information that's



1                    Since more and more technology is found in  
2                    nonpatent literature and foreign patents, and the size of  
3                    the proverbial haystack that the needle has to be found  
4                    in is getting larger every day, it is a substantial  
5                    challenge for examiners to get the closest prior art.

1 enabled, and you've got a piece of literature that's a  
2 year or two after an applicant's filing date, well,  
3 certainly that is very useful information if you can get  
4 your hands on it to help establish that prima facie case  
5 of lack of enablement, let's say for example.

6 And, of course, what is difficult is in certain  
7 areas like inherency. The Office has no testing  
8 facilities, so therefore it's a very difficult burden to  
9 establish that something indeed was inherent. And  
10 inherency deals with both the subject of anticipation as  
11 well as nonobviousness.

12 Once again I'll pick up on some comments that Jay  
13 Thomas was making with respect to what the case law has  
14 done with respect to what applicants can submit in terms  
15 of rebuttal affidavits or declarations or evidence that  
16 normally has to be accepted on its face.

17 And once again, the burden is on the examiner to  
18 point out why the statements are not credible, the  
19 statements that are made factually, and why that's not  
20 persuasive.

21 In fact, a case like *In re Alton* is a good case  
22 which basically is one that says -- this came from the  
23 court. Basically the court said, examiner, you really  
24 have to accept that affidavit or declaration. You can't  
25 just not accept it and substitute your own judgment.

1           So those are generally speaking the kinds of  
2           evidentiary types of situations that we have from the  
3           standpoint of principally an ex parte process that is  
4           highly based upon documentary evidence that is readily  
5           available.

6           And to a large degree when the going gets tough,  
7           certainly the applicant is in the position to have the  
8           experts to do the testing, to submit documentary evidence  
9           to show why the examiner should allow the case.

10          And, of course, as I said, we don't have  
11          laboratories, and we don't have independent experts in  
12          that regard. So therefore, we are really compelled to  
13          accept some of that, particularly from the standpoint of  
14          the fact finding, that is presented to us.

15          MR. COHEN: One of the controls you might have on  
16          this process, at least in the prior art area, would be  
17          the duty of candor. I'm wondering what the panelists  
18          think about whether the duty of candor is set at the  
19          proper level. Jay.

20          PROF. THOMAS: I'm not a big fan of augmenting the  
21          duty of candor because during my brief experience as a  
22          prosecutor for a patent solicitor I found myself just  
23          disclosing everything. It was the easiest way to go.

24          A lot of people in law firms are segregated by  
25          particular technical area of expertise. And you discover

1       you suddenly have hundreds of documents at your disposal.  
2       And it's simply easier and less time-consuming to have  
3       them all photocopied and ship them off.

4               I think you would be surprised if you speak to  
5       examiners just how many documents they get, how little  
6       time they have to parse through them.

7               MR. COHEN: Any other views?

8               MR. PARKHURST: I had two or three points. I  
9       think the level of the duty of candor is about right.  
10      But I think the PTO and maybe the profession at large  
11      could do more jawboning on how it's executed.

12              I think we might well consider more emphasis upon  
13      the need to carry out the Rule 97, 99 suggestions of  
14      demonstrating distinguishing features over the closest  
15      references even though you're presenting them in the  
16      English language, whether or not they're in the English  
17      language.

18              The second thing is Jay mentioned this morning  
19      the problem, particularly in the so-called business  
20      method patents area, that the applicant himself or those  
21      he knows of may have been carrying out the very same  
22      business functions manually or by long-standing other  
23      techniques, telephone, in part, for example.

24              I think, particularly in that area where the  
25      Office does not have an existing body of prior art and



1 where indeed there may not be in large measure documented  
2 prior art, there should be a real push on the applicants  
3 to disclose how they were previously doing this procedure  
4 if they were doing it in part manually, for example, and  
5 how their competitors were previously doing this  
6 procedure.

7 I think his comment was pretty accurate that many  
8 of these functions that we now find being filed as  
9 business method patents were at least in part carried out  
10 in the past by businesses, by whatever means were then  
11 available.

12 And those functions have now been adapted to the  
13 convenience of all-purpose computers, and in some way  
14 there ought to be a bigger onus on the applicants to come  
15 forward with what is genuine prior art material. So just  
16 a couple of thoughts.

17 MR. COHEN: Scott and then Jay.

18 PROF. KIEFF: I guess just briefly I think this  
19 actually dovetails in again with the notion that  
20 patentees have a very, very strong incentive to  
21 self-discipline.

22 I think, Salem, you discussed earlier the notion  
23 of kind of getting patents on the cheap and then  
24 asserting them. And I think that if you get patents on  
25 the cheap and you assert them, and you're fighting

1 somebody who's actually able to fight, the answer is your  
2 patent's invalid. And we see that time and time again.

3 In fact, in the areas -- if anything is discussed  
4 today people seem overly critical of the Federal  
5 Circuit's holding invalid claims. But it's certainly not  
6 -- Amgen, Fiers, Lilly and Enzo are not examples of  
7 patents prosecuted on the cheap and being enforced  
8 successfully. They're examples of patents that did not  
9 have adequate attention put to them and ultimately died  
10 in court.

11 So the duty of candor in a sense may be redundant  
12 if the incentive to, quote, get the scope right is  
13 sharply enough experienced by the patentee herself during  
14 prosecution and during litigation.

15 MR. COHEN: Well, let me ask you about that. What  
16 about the setting where the patentee has multiple claims,  
17 and one may be overstated, but they have a fallback  
18 position which protects them? In that setting does this  
19 self-incentive to get it right still operate?

20 PROF. KIEFF: It seems to me, and I think the  
21 Patent Office folks see this a lot, applicants file  
22 multiply overlapping, partially overlapping, completely  
23 separate claims.

24 And I think, Jay, you're exactly right. They're  
25 going to do it either through continuation practice or



1 have today, and that is the problem.

2 The problem is that there is no way to sort out  
3 the relevancy of the prior art. There's no requirement  
4 to sort out the relevancy and to meet the issue of  
5 whether this prior art has anything to do with my claims  
6 that I'm filing. Instead, I just simply take every piece  
7 of prior art and toss it over the fence.

8 The patentee's in the best position to do that.  
9 And they should be forced to do that. The second thing  
10 is -- or at least an incentive should be created to do  
11 that.

12 The second thing is this again follows up on  
13 Jay's point and I agree with him. The problem here is  
14 that it's attorneys who do it. And that is also another  
15 problem. In other words, when you talk about ideas,  
16 people never go back to the inventors.

17 I can tell you I have five patents of my own, and  
18 my patent attorney never asks for any prior art. It's  
19 exactly as Jay Thomas described it which is, hey, I've  
20 got my biotech group or I've got my computer group and  
21 they've got all the prior art. And it's not true. They  
22 don't have all the prior art.

23 It's the patentee who needs to be asked the  
24 question of what is the relevant prior art. And he knows  
25 he's got this little folder, most probably, where he's

1 got the most relevant five references with respect to the  
2 claims. And that's really the critical issue that we're  
3 talking about.

4 So the duty of candor is fine. It's just that  
5 the relevancy is something that you can't do. You can't  
6 simply have the 200 references all be relevant equally.  
7 There are some that are more important than others. And  
8 the Patent Office should know that.

9 The second point, as far as the fixing it purely  
10 on litigation goes, there is a lot of empirical work that  
11 is coming out that suggests that just simply invalidation  
12 through litigation is not a very good alternative all by  
13 itself.

14 I want to point you to at least a couple of  
15 things on the record, and one place where I did see a lot  
16 of reference to that is in Josh Lerner's statement to the  
17 FTC, where basically there are about two or three points  
18 that are closely related.

19 The first thing is it's increasingly clear that  
20 although the number of full-blown patent trials have not  
21 increased for a long time, the number of complaints that  
22 are filed have increased a lot.

23 And it's become very clear that patentees are  
24 filing these lawsuits purely for the purpose of forcing a  
25 settlement. That's it. They have no intention of

1 litigating the whole thing to trial. They're perfectly  
2 happy to get a low-cost license and buzz out of there and  
3 simply don't care, because they know that once they get  
4 one low-cost license, then they can get the entire  
5 industry will just fall back in line for the same terms.

6 So, for example, last year I think there were  
7 about 1700 complaints filed and only 75 full-blown  
8 trials. The vast majority of the cases settled. So  
9 because of the huge disparity between litigation costs  
10 and patent procurement costs there's tremendous room to  
11 just simply settle it.

12 And I think that is something we really do need a  
13 low-cost or reasonable cost alternative to simply burst  
14 these wrongfully granted patent claims.

15 MR. COHEN: Suzanne.

16 PROF. SCOTCHMER: I just thought it would be  
17 useful to clarify the distinction in social costs and  
18 benefits that as we were discussing them this morning and  
19 as we are discussing them now in the context of  
20 procedural issues.

21 If I understand our discussion about procedural  
22 issues this afternoon, the kinds of social costs and  
23 benefits that concern us are those that have to do with  
24 the social waste of litigation and so on.

25 But that's a different set of social costs and



1 patents, and in fact companies send firms out on very  
2 strict budgets.

3 I've been to an office of a very large firm, and  
4 the officer had a sign on his wall saying we do not spend  
5 more than \$5,000 per application on outsourcing patent  
6 work. I've heard of people who dictate these things  
7 while they iron in the morning to try to increase the  
8 quantity.



1 use Rule 105. It's supposed to have codified earlier  
2 authorities.

3 MR. COHEN: For us antitrust people, please  
4 translate.

5 PROF. THOMAS: Rule 105 was brought into the  
6 Patent Office rules along with the American Inventors  
7 Protection Act, although it was not spawned by it. It's  
8 called Requirements for Information, and it allows  
9 examiners to query applicants, and they are supposed to  
10 respond with information.

11 A response that the information is unavailable or  
12 not conveniently available -- is that perhaps the  
13 language -- is considered a complete response and would  
14 allow basic questions such as, how did you develop this  
15 invention? That's one of the things that I think is  
16 listed in the MPEP.

17 The difficulty, I think, is that it's very  
18 difficult to draft these requirements. It's on the  
19 examiners amendment docket, and it leads to patent term  
20 adjustment, which is a problem the PTO wisely wants to  
21 avoid.

22 It has principally been used with regard to the  
23 bizarre plant patent case of ex parte Thompson, which is  
24 just now raising a fuss. And that's another line of  
25 inquiry.

1           So I think the PTO has the means at its disposal  
2 to do it, although I think we might want to revisit under  
3 Rule 105 whether "I don't know" or "It's inconvenient to  
4 me" ought to count as a complete answer. And if  
5 examiners can be incented to use it. Thank you.

6           MR. COHEN: Let's take Arti and then Salem, and  
7 then we'll move to re-examination. We'll get everybody  
8 in at least once on this round. Arti.

9           PROF. RAI: Just a quick point, a plea, I suppose  
10 for some empirical work. Basically, the problem that we  
11 are facing, and Mark Lemley has tried to take a stab at  
12 this in his Northwestern article on Rational Ignorance at  
13 the Patent Office, is we don't really know what the  
14 social costs of bad patents are because we don't know how  
15 they're used.

16           We know how much litigation there is. We may  
17 know how many complaints are filed, but we don't know  
18 short of that how patents are actually used. We don't  
19 know what percentage are licensed, what sorts of behavior  
20 they induce in terms of people not going into certain  
21 areas of innovation because of the presence of patents,  
22 and so forth.

And another area we don't have much or any

1 sense of what percentage of bad patents would actually be  
2 eliminated as a consequence of these procedures.

3 So I think it's really important to sort of --  
4 here the percentages really do matter because it's all a  
5 question of the marginal costs -- reducing the marginal  
6 social costs while increasing -- at a cost to the Patent  
7 Office that's not too high.

8 MR. COHEN: Salem.

9 MR. KATSH: Well, this brings me back to the point  
10 I made earlier about my questioning whether tinkering in  
11 the system is going to work.

12 I think that in the real world, if there is such  
13 a thing, the problem is predictability. Now, whether one  
14 says it was right or not, prior to the Federal Circuit we  
15 know that whatever, 60, 70 percent of patents were  
16 invalidated. Post Federal Circuit just the opposite.

17 Now, Jay is pointing out the problem of  
18 wrongfully granted patent claims. But wrongfully granted  
19 patent claims in a system that upholds 60 to 70 percent  
20 of the claims litigated in litigation is going to spawn  
21 ever-increasing applications, ever-increasing demands on  
22 the PTO and is going to stretch the resources beyond the  
23 breaking point. I mean there is no free lunch.

24 We are either going to have to establish claim  
25 construction rules, guidelines for obviousness,

1 guidelines for equivalents, if any, and reduce the number  
2 and encourage companies to invest in patents that they  
3 write.

4           When I said that somebody can get a patent on the  
5 cheap, I was referring to what John Thomas is talking  
6 about. Companies -- it's not that they wouldn't want a  
7 gilt-plated patent. They would love to have one. But  
8 they have no idea what's going to be issued. They have  
9 no idea what's going to be relevant. They have no idea  
10 what's going to be needed. Not no idea but they have to  
11 sweep broadly to protect themselves against the fact that  
12 other companies are filing hundreds if not thousands of

1 value. And I don't agree with Scott that the fact that  
2 you can lose a case like Lilly or others or even get Rule  
3 11 sanctions in some cases is going to be a deterrent.

4 Courts, in my experience -- I mean the conduct  
5 they let you get away with is astonishing. And Rule 11  
6 is not going to be the answer. And I'll bet you, if I  
7 asked you, Scott, whether you could have -- how sure you  
8 were about the results in those cases you mentioned  
9 before they were decided -- whether you would have said,  
10 there's no chance of success.

11 PROF. KIEFF: But that's why it's under the reform  
12 section of the paper, which is to say maybe we should  
13 take those things seriously.

14 MR. KATSH: But those cases were not predictable  
15 before they were decided. People lose cases all the  
16 time. They get reversed all the time.

17 So just my final point would be that you pointed  
18 out earlier, when I was talking about Graham, some very  
19 interesting history to the opinion. I was really talking  
20 though about Hotchkiss, and if you look at the Hotchkiss  
21 case, my understanding is that that case involved a  
22 patent for the substitution of ceramic or metal for  
23 wooden door knobs. And that was held unpatentable.

24 Now, how many thousands of patents are issued for  
25 creating old products with new and unobvious materials

1 with better functioning and better cost efficiency?

2 And if Graham said follow Hotchkiss, and if the  
3 circuit courts of appeals, putting the forum shopping  
4 issue to one side, because that was really dealt with in  
5 Blonder Tongue, if they were all following Hotchkiss, and  
6 you had a 70 percent reversal rate, that was sending a  
7 signal to the PTO that, as the court said, there was a  
8 notorious disparity in standards.

9 So it was then a move to fund the PTO to make the  
10 effort so the courts would not invalidate. That  
11 incentive is diminished when you have the courts  
12 basically upholding what Jay is calling wrongfully  
13 granted patent claims. Not wrongfully granted unless the  
14 courts says they are.

15 MR. COHEN: Let's move for a little while now to  
16 re-examination. We've been told in the hearings that the  
17 re-examination process deals with novelty and  
18 nonobviousness, but not with enablement, description and  
19 utility. And that even when treating issues of prior art  
20 it addresses only prior art not previously considered.  
21 Given these limitations, does anybody have any thoughts  
22 as to whether the scope of re-examination is sufficient?  
23 Mark.

24 PROF. JANIS: Yes. I do have thoughts and, no,  
25 it's not. But I do think we need to step back and ask

1       some very hard questions about what it is that we really  
2       want out of such a procedure.

3               And I think my study of the history of the re-  
4       exam statute and the proposals that preceded it suggest  
5       to me that no one really came to a consensus on that. Is  
6       it really some sort of very limited error correction  
7       mechanism, or is it really a serious effort to create an  
8       administrative alternative to litigation?

9               Now, those are not -- those are extremes out of  
10       spectrum. I suppose you could have elements of both in a  
11       given procedure, but I take from the many factors,  
12       including the fact that this procedure is called a  
13       re-examination not opposition, that in the beginning it  
14       was skewed toward a model of error correction, a very  
15       limited model of correcting an error. You have to show  
16       an error to get into re-examination basically,  
17       substantial new question of patentability.

18               So it shouldn't surprise us that when we look at  
19       it today and say is this procedure an adequate  
20       alternative to litigation the answer is no, that there  
21       are all these limitations.

22               And this is an area where tinkering is simply not  
23       going to work. And the latest round of legislation  
24       proves that amply because we never did get back to the  
25       question of what we really wanted.

1           Instead, we took this re-examination procedure  
2           and said, we'll tinker with it. We'll make some small  
3           efforts to enhance third party participation and call it  
4           inter partes, but then we'll take a lot away in estoppel  
5           provisions. And then we'll say to the world now we have  
6           this great administrative alternative to litigation.

7           And so it's just not surprising that that's not  
8           what we have. So those types of discussions really need  
9           to occur. And you can see the kinds of alternatives that  
10          are going to arise from those discussions.

11          You're going to have Jay Kesan saying, no, no.  
It needs to be pre-grant opposition. You'll ave JrD 68.175 -0.75



1 options per challenge are severely limited like the  
2 current system and then you lay on top of that serious  
3 estoppel provisions, I don't think anybody is going to  
4 use that system.

5 It's bad enough that there is not a long record  
6 of re-examination. People don't have the sort of  
7 reassurance that it's going to be conducted and that  
8 they're going to get good results out of it.

9 When I was using it, I just was always a little  
10 uncomfortable. I just never quite knew whether I was  
11 going to get good justice out of that procedure. So it's  
12 bad enough even without the estoppel. But when you add  
13 the estoppel in, people aren't going to use it.

14 Now, if you make this the mirror image of  
15 validity challenges in litigation, then perhaps talking  
16 about estoppel is more reasonable. But the estoppel  
17 provisions as they stand in the current scheme, I think,  
18 among other factors, make it just almost completely  
19 unworkable or certainly just so unattractive that it's  
20 hard to see counseling people to engage in it.

21 MR. COHEN: Roger.

22 MR. PARKHURST: Well, a number of points. The  
23 existing system is obviously inadequate. Steve's  
24 statistic about three inter partes re-exams under the

1 Mike Kirk, was here, he could tell you in excruciating  
2 detail that that statute is the result of practical  
3 politics in the Congress these days.

4 And that's an issue that we haven't talked about  
5 here in any of these points. But it would be an overlay  
6 over any thought of radically modifying the patent law.

7 But talking about re-exam in particular and the  
8 estoppel point, it would seem that if we could get a  
9 re-examination procedure that would just simply open it  
10 up to all attacks, then you could have an estoppel that  
11 looks like res judicata or collateral estoppel in the  
12 courts, and you would have a system that would invite  
13 those with economic interest to attack those patents that  
14 are of economic significance.

15 You would probably have a greatly increased use  
16 of that system, and you would have a focus on those  
17 patents that are really of interest economically. So I  
18 would think that that's a good goal. How long it takes  
19 us to get to that goal is a big question.

20 Meanwhile, this, like the issue we just discussed  
21 of how to get the best prior art before examiners, brings  
22 us back to the need to urge Congress to give the Patent  
23 Office access to all the fees it collects to try to  
24 create the quality patents that we'd all like to have, so  
25 that we have the kind of certainty that Salem's clients

1 are talking about.

2 And part of that certainty is reducing pendency,  
3 so that you have some certainty of what it is that your  
4 competitor is getting out of his application even though  
5 today it's published.

6 MR. COHEN: Jay.

7 PROF. KESAN: Just a couple of things to add onto  
8 what Mark said. First I want to mention one piece of  
9 work by Dietmar Harhoff, where he has done some studies  
10 on oppositions in Germany. And he shows that surviving  
11 an opposition is one of the very best predictors of  
12 patent value, in other words how valuable a patent is.  
13 If you want a signal that I do have this great patent,  
14 then surviving an opposition is one of the very best  
15 measures of it.

16 And I think that is very valuable, because it  
17 really shows that when you have other people weigh in on  
18 the process and you still end up with a patent, that  
19 sends a clear signal to the marketplace. I mean, this is  
20 not just some paper claims, et cetera. There's some real  
21 economic value associated with this. People have tried  
22 to take this down and did not succeed, and I really have  
23 something here.

24 And the earlier on in the process that we can  
25 actually have that kind of a market mechanism that points

1 to real value is, of course, a very good thing for the  
2 patentee, and it makes complete economic sense.

3 The only other similar predictor that I have seen  
4 is in payment of maintenance fees as being another very  
5 good indication of patent value. In other words, the  
6 patents that do get reviewed are the ones that really do

1 certainly possible. But there was a vigorous opposition  
2 practice, and it has dropped off substantially when they  
3 moved to a post-grant system.

4 At the same time, the number of invalidation  
5 trials and nullity proceedings and so on have increased  
6 dramatically. So in other words once you go to -- when  
7 they moved to a post-grant system, people automatically  
8 started favoring the courts as opposed to going to the  
9 patent office.

10 And I think that's something to really keep in  
11 mind, and it goes directly to the issue of -- what really  
12 struck me when I did this qualitative interviews in Japan  
13 was when I started realizing that we really do have a  
14 serious post-decisional cognitive dissonance problem,  
15 where basically what you have is examiners and the  
16 examination boards and the reform boards are willing to  
17 change the scope of the claims once the patent issues,  
18 but they are not willing to revoke or invalidate claims  
19 entirely.

20 In other words, the tendency is to say, well, I  
21 was right all along. Maybe I just need to simply narrow  
22 the scope of the claim. I'm committed to an outcome, and  
23 I think I was right all along. And I'm not going to  
24 change from the outcome. I'm merely going to narrow the  
25 scope of the claims.

1           That serves as a tremendous disincentive to the  
2 parties. The parties feel like, well, I'm not going to  
3 get a fair shot here. I mean, the patent office has  
4 spoken. They have taken a decision that the patent is  
5 anyway going to get allowed, and I'm going to take my  
6 chances at another forum, the courts. I think it's  
7 something to keep in mind.

8           MR. COHEN: Let's try Steve and then move to our  
9 final topic area.

          MR. KUNIN: I'll be brief. Jay and I have d5 -p

1 grant which hasn't been mentioned is in the United States  
2 we have patent term adjustment. If you are worried about  
3 submarine patents, how about 28-year patents or 30-year  
4 patents or whatever it would be if you didn't take into  
5 account the fact that right now in the law if you impose  
6 all of these delays for whatever purpose -- it could be  
7 appeal interference or administrative delay -- you get  
8 day-for-day term adjustment?

9 So I think it's just not conceivable, with  
10 respect to the regime on term adjustment, to even  
11 consider pre-grant opposition. I think there's many ways  
12 -- different examiner, proceedings conducted by a panel  
13 of administrative patent judges -- there's ways by which  
14 you can, I think, reduce or eliminate some of those  
15 perceptions that Jay was mentioning in terms of why pre-  
16 grant is superior to post-grant.

17 So I think that from the perspective of where do  
18 we get there from here, I would say that despite the  
19 arguments that have been made for having pre-grant in the  
20 United States, I just don't think it's going to happen.

21 MR. COHEN: Okay. I'd like to get us to wrap up,  
22 say within 15 minutes, but before we do that, there's one  
23 more topic area. It has floated throughout our  
24 discussions. I'd like to focus on it directly. And  
25 that's the handling of uncertainty.





1                   MR. COHEN: Any other thoughts on the 18-month  
2 disclosure rule, or do we take that as the view of the  
3 panel? Jay?

4                   PROF. KESAN: No. I think it actually does serve  
5 some benefit, and that is that you do have, in fact,  
6 disclosure. People are put on notice, and to that extent  
7 you have the reduction on various sorts of social costs.  
I mean,al? Jay?

1           We've heard a lot that things are different for  
2 various aspects of the patenting process, industry to  
3 industry. What about for the infringement predictions?  
4 Scott.

5           PROF. KIEFF: Just a couple of thoughts. I'm  
6 sorry Suzanne left, but I completely agree with her that  
7 we have to do the dynamic analysis, the multiple cycle  
8 analysis on these things.

9           But, if anything, that takes us back, on this  
10 uncertainty problem this takes us back to well, what kind  
11 of scope do we want to give whatever patent is upstream  
12 that's going to be uncertainty to issued patents and what  
13 certainty do we want to give downstream to people who  
14 want to do inventing?

15           And if we have a nonobviousness requirement  
16 that's actually lower rather than higher, whatever that  
17 means, at least for the concerns she just expressed, the  
18 downstream inventor gets a piece of the pie too. She's  
19 got an incentive to do downstream inventing. So that can  
20 play out.

21           But if we start to say, hey, listen, if you're in  
22 a downstream/upstream position, somehow there are  
23 different rules on validity for either you or the  
24 upstream guy, I think that's a big form of the  
25 uncertainty. And that plays out in this area because

1 people will go to the Justice Department or here, and  
2 they'll argue misuse or antitrust problems that have to  
3 do with breadth. That is a cloud of uncertainty.

4 So uncertainty issues -- the shortest answer on  
5 uncertainty is this hearing creates a massive uncertainty  
6 on the system. And that's not irrelevant. And the more  
7 we make liability rule treatment, in fact, the more we  
8 have multiple cycle problems, because you'll squeeze out  
9 more efficiency in whatever cycle you're presently in,  
10 absolutely, just like under an efficient breach analysis  
11 in contract law, you'll get the stuff to the higher value  
12 use in that cycle of the game, but you won't get future  
13 cycles. In multiple cycle games, squeezing out the added  
14 efficiency in one cycle will have the effect of deterring  
15 players from playing future cycles.

16 And that is exactly, I think, a problem and  
17 that's a problem -- I'm sorry Suzanne left because I  
18 actually think it cuts the other way on all of these  
19 issues.

20 MR. COHEN: Arti.

21 PROF. RAI: I'm not sure I understand this  
22 multiple cycle sort of argument, but the point that I was  
23 going to raise was that I think that at least in biotech,  
24 which is the industry with which I'm familiar, the  
25 conventional wisdom seems to be that the Federal Circuit

1 has created tremendous uncertainty. And so it's not  
2 clear that any changes would make that worse.

3 So again, I mean, I think that there's a great  
4 deal that could be done to create more certainty. I  
5 think certainty is a valuable thing to have. And in  
6 particular I think that some of the reforms along the  
7 lines suggested by the Jays with respect to -- and Mark -  
8 - with respect to getting certainty at the administrative  
9 level will really help all industries out.

10 MR. COHEN: Jay.

11 PROF. KESAN: Just a couple of things. One is, of  
12 course, two points related to uncertainty. One is that  
13 having an administrative proceeding like that would  
14 actually reduce some of the uncertainty, because now you  
15 really know you have a valuable patent.

16 The second thing actually goes back to a point  
17 that Scott made very briefly in the morning. And that is  
18 I think a large part of the uncertainty in private  
19 practice really comes about because there is so much  
20 difficulty in -- if you are a competitor -- in  
21 understanding the scope of the patent just by looking at  
22 the claims that's largely brought about by the Doctrine  
23 of Equivalents.

24 And I think my own view on that is that this game  
25 of having a Doctrine of Equivalents and then trying to

1 limit it with all sorts of -- rein it in, you have it but  
2 rein it in -- is something that I think is well worth  
3 rethinking.

4 I think the dissents in the Hilton Davis case at  
5 the Federal Circuit level make some very, very powerful  
6 arguments that the Doctrine of Equivalents doesn't do  
7 very much, and it's perfectly okay to put the burden on  
8 the patentee to have claims at the outset.

9 He's the person who is best in the know, so why  
10 not do a darn good job, and if you have made a mistake  
11 you've got two years to fix it in the reissue. You've  
12 got time to fix things. And I think a lot of the  
13 uncertainty on patent scope would be eliminated if we  
14 didn't have this whole equivalents issue.

15 MR. COHEN: Mark.

16 PROF. JANIS: I'm just going to be a pessimist on  
17 this issue. I think certainty is awfully elusive in  
18 patent law, and I think it just springs in part from the  
19 complexity of the document and the use of claims.

20 If we took away the Doctrine of Equivalents, we'd  
21 have a lot of people making a lot of fancy arguments  
22 about literal infringement and claim construction. And  
23 we'd say, gosh, this is all very uncertain. And I think  
24 that's true of obviousness. I think it's true of  
25 enablement.

1           I think those are inherently complicated legal  
2 inquiries, but they all relate back to claims and the  
3 complexity of claims. So I'm a little worried. I don't  
4 buy into some of the certainty rationales that the  
5 Federal Circuit parades before us, because I think that  
6 the rules that they create and rationalize on the basis  
7 of certainty often just shift the uncertainty elsewhere.  
8 I think I probably said that earlier in the hearing.

9           So I don't want to be too much of a pessimist,  
10 but I do want to sound a cautionary note that we not buy  
11 into the certainty rationale wholesale, that we just  
12 recognize that there may only be so far we can go.

13           MR. COHEN: Arti.

14           PROF. RAI: One point I forgot to make, not to  
15 double dip, and that is sort of one of my pet peeves  
16 about the Federal Circuit, which I think Salem has  
17 brought up several times, is that it's essentially acting  
18 in many situations as a trial court. It revisits all  
19 sorts of issues that are fact-based.

20           And that creates tremendous uncertainty because  
21 you just have to wait until the appellate court decides  
22 the issue before you know what the outcome is, which is  
23 not the way that our rules of civil procedure is supposed  
24 to work and for good, sort of economic efficiency,  
25 reasons.

1           MR. COHEN: Well, we're late in the day. We want  
2 to wrap up, but I want to give each of you an  
3 opportunity, before we leave -- if there's anything on  
4 any of the subject areas that we have tried to cover  
5 today that you never got your chance to make the point  
6 that you were dying to make, I'll give you that chance.  
7 I see Scott has his sign up.

8           MR. KIEFF: Well, yeah. I mean, I think that to  
9 follow up on a point that Arti made, I completely agree  
10 with you, Arti, that lots of things in life are empirical  
11 questions. And I completely agree with you that data is  
12 always better than no data.

13           But our understanding of the way things work  
14 sometimes gets us to a point where we no longer need  
15 data. So, for example, I think we're all going to just  
16 take it, and it's not worth litigating the issue, that if  
17 I drop the cup it's going to fall, because we have an  
18 understanding here at this speed on this planet at this  
19 time that gravity is going to operate that way.

20           And the laws of economics have taught us a little  
21 bit about transaction costs, and they have taught us that  
22 the types of problems explored at length in the  
23 literature of transaction costs, bargaining over patents,  
24 are transaction costs that are typically associated with  
25 markets that are thin.





1 activity and some other objective indicia.

2 The problem is that there is a whole bunch of  
3 other things that could have contributed to it, good  
4 marketing, a lock-in as you pointed out, or network  
5 externalities, as we call them.

6 And the real need in the nexus requirement is a  
7 "but for" requirement. In other words, there should be a  
8 requirement that says that but for the inventive  
9 activity, the particular commercial success, et cetera,  
10 would not have taken place.

11 So when you have a multiple causation problem and  
12 you're relying on this to show nonobviousness, you really  
13 need to have a "but for" test there which is something --  
14 the whole nexus requirement is not well policed, but I  
15 think the "but for" requirement is really essential.

16 MR. COHEN: And then I guess Salem will have the  
17 last word today.

18 MR. KATSH: Well, I wanted to reference again, I  
19 guess, where I started. It troubles me that in all of  
20 these studies, in all of the -- whether qualitative or  
21 empirical -- there is really no concrete evidence of  
22 whether we are all better off with or without this  
23 patent system, to what extent it actually provides  
24 products and processes faster or that otherwise would not  
25 be here.

1           Now, politically, it's a reality. But in the  
2 Temporary National Economic Committee hearings in the  
3 '30s, there was a colloquy where the chairman of General  
4 Motors was asked whether they would have made the same  
5 innovation without the patent system, and he said no.  
6 And then Edsel Ford, who was then chairman of the Ford  
7 Motor Company, was asked the same question, and he said,  
8 yeah. Patents wouldn't make a difference.

9           There's studies by Mike Scherer, who found that  
10 most of the R&D and business people didn't think it would  
11 make a great difference. The people who were most  
12 convinced it made a difference were the lawyers.

13           Now, I happen to love the patent system the way  
14 it is now. And it's very provocative, and it gives me a  
15 lot of work. But it seems to me that given the  
16 uncertainty about what it actually does, because it's so  
17 hard to measure without a control, there's room for  
18 experimentation and creative thinking at least, about  
19 some kinds of new approaches.

20           And I saved this for last because I didn't want  
21 to get beat up too much, but we could have a ranking  
22 system. We could have a system like the Presidential  
23 commission we talked about, where people would  
24 voluntarily delay examination.

25           We could do a lot of things. We could experiment

1 with different terms for different patents, different  
2 standards for different industries. These are concepts  
3 that ought to be explored, because it's unclear whether  
4 the costs would outweigh the benefits.

5 The whole idea of preserving as absolute the  
6 right of exclusivity in all cases, even given the fact  
7 that most patents are asserted to lack market power, that  
8 poses to me a question of why are we multiplying the  
9 number of patents that are being issued.

10 One study in particular I would recommend is that  
11 we have just gotten the business method patent  
12 legitimized as of 1998. Perhaps that could -- the  
13 Commission has a great Bureau of Economics. And there is  
14 a control possibility, to look at what the impact of  
15 having a business method patent would have been had it  
16 been in effect, say, in 1960 and had frequent-flier miles  
17 been patented and credit cards have been patented and  
18 lots of other things have been patented.

19 If you look back, software patents were not  
20 recognized until quite recently. There are areas where  
21 you could try to establish, it seems to me, maybe  
22 President Levin at Yale is doing this in some part, but  
23 we have no guidepost. All we know is that there's a  
24 chilling effect out there of having all these patents,  
25 whether they're in litigation or not.

1                   And it strikes me that there's a lot of work that  
2                   could be done to try different approaches that would  
3                   benefit both producers and consumers.

4                   MR. COHEN: Thank you. This has been a very  
5                   interesting, very useful session. I want to thank all of  
6                   you for your thoughtful comments, for your patience, and  
7                   for your willingness to help. Thank you.

8   **(Whereupon, the hearing**  
9   **concluded at 4:49 p.m.)**

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