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FEDERAL TRADE COMMISSION
DEPARTMENT OF JUSTICE ANTITRUST DIVISION
ROUNDTABLE

COMPETITION, ECONOMIC, AND BUSINESS
PERSPECTIVES ON SUBSTANTIVE PATENT LAW ISSUES:
NON-OBVIOUSNESS AND OTHER PATENTABILITY CRITERIA

Wednesday, October 30, 2002
10:00 a.m. to 4:30 p.m.

Federal Trade Commission
600 Pennsylvania Avenue, N.W.
Room 432
Washington, D.C.

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

P R O C E E D I N G S

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3 MR. WILLIAM COHEN: Good morning. Welcome to
4 today's panel on Competition, Economic, and Business
5 Perspectives on Substantive Law Issues. My name is
6 Bill Cohen, and I'm an Assistant General Counsel here
7 at the Federal Trade Commission, and to my left is
8 Susan DeSanti. She's the Deputy General Counsel for
9 Policy Studies. To my right is Hillary Greene, the
10 Project Director for Intellectual Property.

11 The hearing groups we began back in February
12 have now nearly come to their close. Today is the last
13 day directly focused on patent issues, and the hearings
14 will end with one more roundtable on November the 6th.

1 in a booklet on the table out in front of the room.

2 What I'd like to do is just hit a few of the highlights

1 Wesley Cohen at the far end here has just
2 joined the faculty of the Fuqua School of Business,
3 Duke University, as Professor of Economics and
4 Management after teaching at Carnegie Melon University
5 for 20 years. He is also a Research Associate of the
6 National Bureau of Economic Research. Professor
7 Cohen's research has mainly focused on the economic and
8 technological change in research and development.

9 John Duffy is an Associate Professor of Law at
10 the William & Mary School of law. He teaches and
11 writes in the fields of patents and administrative law.
12 He is a registered patent attorney and the co-author,
13 with Robert Merges, of a case book on patent law. Am I
14 correct, he's full professor? You have had a number of
15 promotions during the course of these long hearings.

16 Brian Kahin directs the Center for Information
17 Policy at the University of Maryland. He's a Visiting
18 Professor in the College of Information Studies with
19 affiliate faculty appointments in the School of Public
20 Affairs and the R. A. Smith School of Business.

21 Edmund Kitch, on this side, is the Joseph M.
22 Hartfield Professor of Law at the University of
23 Virginia School of Law. His scholarly and teaching
24 interests include agencies, corporations, securities,
25 antitrust, industrial and intellectual property,

1 economic regulation and legal and economic history, and
2 he has written some seminal articles regarding the
3 patent system.

4 Steve Merrill has been Executive Director of
5 the National Academy's Board on Science, Technology and
6 Economic Policy, the STEP Board, since its formation in
7 1991. They have the sponsorship of a growing number of
8 federal government agencies, foundations, multinational
9 corporations in various sectors and international
10 institutions. He has developed the STEP program into
11 an important discussion forum and authoritative voice
12 on technology, research and development and other
13 microeconomic policies.

14 Gerald Mossinghoff is a former Assistant
15 Secretary of Commerce and Commissioner of Patents and
16 Trademarks and the former President of the
17 Pharmaceutical Research and Manufacturers of America.
18 He has served as United States Ambassador to the
19 Diplomatic Conference on Revision of the Paris
20 Convention and as Chairman of the General Assembly of
21 the United Nations World Intellectual Property
22 Organization. He is now Senior Counsel to Oblon,
23 Spivak, McClelland, Maier & Neustadt, and also serves
24 as a Visiting Professor of intellectual property at the
25 George Washington University Law School.

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1 Ron Myrick, back on this side, is the Chief
2 Intellectual Property Counsel for General Electric and
3 the President of Monogram Licensing, Inc. He is also
4 the President-Elect of the American Intellectual
5 Property Law Association and the Immediate Past
6 President of the Intellectual Property Owners
7 Association.

8 James Pooley is a Partner at Milbank, Tweed,
9 Hadley & McCloy's intellectual property group in the
10 Palo Alto office. Mr. Pooley specializes in the
11 litigation and trial of patents, trade secret and
12 complex technology-related litigation in state and
13 federal courts and before the International Trade
14 Commission.

15 And Robert Stoner is a Vice President of
16 Economists Inc. and a former Deputy Assistant Director
17 for Antitrust in the Bureau of Economics at the FTC.
18 He has testified in a number of antitrust cases and
19 before a variety of governmental agencies, and in
20 particular, has recently submitted testimony in an ITC
21 Section 337 proceeding involving patent licensing.

22 Many of our panelists are good enough to join
23 us for a second and in some instances even a third
24 time, I think. We're very, very grateful to have such
25 an outstanding panel.

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1 Last week we had a roundtable to address some
2 of the competitive issues raised by patent quality and
3 the procedures employed in prosecuting and litigating
4 patents. Today we're going to shift our emphasis over
5 to the implications for competition and innovation of
6 substantive patent doctrines. We will address four
7 topics, roughly two in the morning and two in the
8 afternoon, though we will break between noon and 2:00.

9 We will begin with some discussion of the goals
10 that underlie the patent system and the extent to which
11 consideration of those goals works its way into the
12 questions of substantive patent policy.

13 Then we will turn to non-obviousness, the
14 doctrines that some of our panelists have described as
15 the heart of the patent system. We will address some
16 of the issues that go to the theory of non-obviousness
17 and then some of the more practical issues being raised
18 in today's prosecution and litigation regarding those
19 doctrines.

20 In the afternoon, we will turn to doctrines
21 that focus directly on patent breadth. I expect some
22 discussion of enablement, written descriptions and best
23 mode, as well as the claim-broadening potential
24 associated with the use of continuations. And finally,
25 we will end with a discussion of patenting in the

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1 context of research and research tools, trying to
2 identify any special considerations that might
3 contribute to our understanding of competitive
4 implications.

5 During the day, Hillary and I will have some
6 questions for you to guide the discussion. When you
7 would like to speak, let me ask that you tilt your name
8 tent up on its side so that we know you would like to
9 be recognized, and then we will recognize you. With
10 that, let's begin with our first topic.

11 We are going to start by discussing economic
12 goals, and I guess the first question is a setup
13 question to get a broad view. What are the goals of
14 the patent system? To what extent do the courts and
15 the PTO, when considering policy choices, consider the
16 likely impact on innovation or economic welfare? Or
17 stated a little differently, what role does economic
18 analysis play in the patent system?

19 Does anybody want to start us off? Bob?

20 MR. STONER: Yeah, just by way of background,
21 I'd like to say that I don't really think you can look
22 at this effect of the patent system on welfare and
23 innovation in a vacuum and that it's very important not
24 only to look at the direct effects of the patent system
25 on innovation through helping appropriability or

1 through disclosure, but also to look at the feedback
2 effect, that the patent system and given
3 appropriability also has implications for market

1 part of it and probably an important part of it, but
2 certainly not the overriding part. The overriding part
3 is human progress, and I believe the patent system has
4 served very, very well in harnessing human creativity
5 to achieve human progress. And that should be the view
6 at 35,000 feet.

7 My second comment on your comment would be
8 that, when you talk about does the U.S. PTO and do the
9 courts keep these economic goals in mind when they work
10 in the patent system, I would submit that the main
11 policy maker in the patent system is neither the U.S.
12 PTO nor the courts, it's the United States Congress.
13 And they're the ones who I think have kept these goals
14 very clearly in mind in their enactment of the patent
15 system in 1790 on through the current changes that are
16 being made to the patent system.

17 So, I'm a conservative -- known to be a
18 conservative -- but I don't think administrative bodies
19 ministya but I donbmis toatent ime 0 -ryo th the Ubroadker in -2-24.

1 One, I don't think we should become confused
2 semantically, okay? I would agree that the goal for
3 the patent system is indeed human progress. Taking the
4 position of an economist, I would say that economists
5 would claim that those are economic goals. So, to the
6 extent, you know, that those are reflected in social
7 welfare, economists are concerned with social welfare.
8 So, I don't think there's the kind of divide that you
9 suggest between economic goals and the goals of
10 progress and innovation.

11 As an economist, I've been preoccupied for
12 almost a couple of decades with innovation. I see
13 that, you know, and indeed other economists see that as
14 the main source of growth in social welfare over time.

15 The second more specific point, does the U.S.
16 PTO and do the courts keep these goals in mind? And
17 Gerry's suggestion that, well, perhaps less so, but
18 it's really Congress that you need to worry about and
19 the nature of the legislation, statutes and their
20 conception, indeed, we so see the goals of science and
21 technical advance clearly articulated in the
22 Constitution itself. And I think that's what you were
23 referring to.

24 I have a question, though. Let's put aside, so
25 we don't kind of worry about this semantic divide, the

1 economic goals, but just the goal of innovation, of
2 progress, if you will. And I have a question to the
3 panel. In the course of the work of the National
4 Academy's Committee on Intellectual Property Rights in
5 a Knowledge-Based Economy, in which I've participated,
6 something rather striking has come up, which is that
7 the courts, in particular, and to some extent even the
8 U.S. PTO, but particularly the courts, do not seem to
9 see as their first order mission when they think about
10 cases and decisions to consider, the implications of
11 those decisions for progress, for innovation, in a
12 forward-looking way.

13 That's just my broad impression, and I'd be
14 curious if that's a misimpression and if others have
15 complementary or other views, and if that's not the
16 case, is that a sensible situation? Is that the
17 situation that could even be remedied given our current
18 institutional setting?

19 MR. WILLIAM COHEN: Let's try Jim Pooley. We
20 have broadened the question slightly, and that's where
21 I was heading. There are really two separate questions
22 here. To what extent are these considerations
23 currently being taken into account? And to what extent
24 should they be taken into account? Maybe any thoughts
25 on either of them.

1 MR. POOLEY: Yeah, well, you know, I also have
2 spent a great deal of time with Wes and the work of the
3 National Academy's Committee. And, I suppose as a
4 practitioner, it hasn't struck me as that unusual to
5 observe that the courts and especially the PTO don't
6 consider it a central part of their mission to resolve
7 questions of economics in the way that the questions of
8 economics have been designed here.

9 Certainly it seems to me that the courts
10 recognize, and we can find evidence of that in many of
11 the reported opinions, that there's a certain tension
12 that exists between the grant of intellectual property
13 rights, and patents in particular on the one hand, and
14 certain other broadly stated economic notions of
15 monopolies and so forth on the other.

16 But beyond that, it seems that certainly the
17 PTO, whose primary job it is to enforce the law as
18 written by Congress, where I agree with Gerry, that the
19 real balancing of economic issues and the outcomes of
20 the various standards is done, the PTO's job is to take
21 those standards and apply them with their expertise.
22 And their expertise is not in observing and
23 formulating, you know, economic policy, it's in
24 determining whether a purported invention meets the
25 standards of the patent statute. And I think the

1 structure and mission of the PTO doesn't properly
2 include economic issues of the sort that we've been
3 talking about here. I think the same might be said for
4 most of the trial court determinations.

5 Now, at the Federal Circuit level, there
6 probably is a lot more room for input on economic
7 issues. I know that there have been some judges that
8 have expressed, you know, an interest or even some
9 frustration in not getting more information in
10 briefing, but they have to take the cases the way that
11 they are presented to them. And, there is the other
12 issue of how one, if you think it's a good idea that
13 judges of the Federal Circuit take into account these
14 kinds of issues, how you get it in front of them and
15 how you get a broad enough array of opinions to make it
16 useful and perhaps not dangerous.

17 So, I think if we're thinking about
18 interjecting these kinds of economic issues in the way f opinio

1 change that took place some years ago in baseball where
2 the home plate umpire would make a call of a strike or
3 a ball, but in certain circumstances, when the batter
4 went around, to a certain degree, there could be an
5 appeal over to the first base umpire to see if that's a
6 strike or a ball. Those people do what they're told to
7 do, what the rules are given to them. And I think in
8 this context, the rules that have been articulated are
9 rules articulated by the Congress.

10 The Constitution, as Gerry said, says that
11 Congress may provide exclusive rights in order to
12 promote progress in the useful arts. It doesn't have
13 to; it may. It chose to many years ago, and it said,
14 here are the rules.

15 I don't see it unusual to see Congress set the
16 rules and the agency and the PTO try to apply the rules
17 and the courts try to apply the rules. I agree with
18 Jim's observation that some Federal Circuit judges want
19 to see more emphasis on and explanation of the economic
20 impact, and I think that they might take that into
21 consideration should they get that. But ultimately, I
22 think even the Federal Circuit and even the judges that
23 clamor for that the most will come back to the
24 statutory standards of patentability. And if there's
25 fixes to be made, that's where the fixes are, down the

1 hall at Congress, not up in the Federal Circuit,
2 certainly not in the trial court, and most definitely
3 not at the Patent & Trademark Office.

4 One brief comment about the semantic divide, I
5 tend to agree with Professor Cohen that the difference
6 between focusing on progress in the useful arts and
7 economic welfare are often very congruent. Going at a
8 heading of 360 and a heading of 355 degrees is often
9 very congruent, especially at the beginning. But, I
10 think we need to keep our eye on the actual rules and
11 the actual goal and the actual terminology of the
12 Constitution, and that is progress in the useful arts,
13 which might occasionally be disparate from economic
14 goals. But, as long as you keep your eye on the ball,
15 I think by and large, they will be congruent, but there
16 may be points of disparity.

17 MR. WILLIAM COHEN: When there are such points,
18 can the economic goals be taken into account?

19 MR. BANNER: Well, ultimately I think what you
20 take into account, if you're talking about what the
21 Patent Office does and what the courts do, I think the
22 things they take into account are the things that
23 Congress said to take into account, the standards of
24 patentability, and only in very minor ways do they
25 include economic goals and progress. This is to

1 promote progress issues.

2 There are ways in which, you know, it is
3 inherent that it's intended to promote progress, and it
4 is inherent that it is intended to intend economic
5 welfare for the nation, which presumably will also
6 provide welfare to consumers, as well as to industry.
7 But, I think generally you take into account what the
8 Congress says you will take into account.

9 MR. WILLIAM COHEN: Let me just add, for some

1 think in some ways -- and I note one of the topics is
2 obviousness -- economic analysis is part and parcel of
3 the equation that currently exists in patentability and
4 validity of an issued patent. And, in those areas, in
5 particular, I think the law is not particularly well
6 developed. Perhaps we will get to that later on, but
7 particularly as it comes to the nexus requirement of
8 commercial success and so forth, I think there's a lot
9 of room to grow and analysis there.

10 Obviously you have economic analysis and
11 economic goals, when you make substantive decisions
12 about what are the appropriate measures of damages for
13 a patent case. Even under the statutory standards,
14 there's an awful lot of flexibility in the way those
15 are being applied. I know that's not part of our
16 topic, but I think the economic analysis of those
17 issues has been woefully neglected by the courts and by
18 litigants. But ultimately, I think there are lots of
19 analytical tools, including economic goals, that go
20 into figuring out things, such as, is the patent system

1 MR. WILLIAM COHEN: Brian Kahin has had his
2 sign up for some time and has been patient.

3 MR. KAHIN: I would caution against putting too
4 much credence in congressional intent here. If we go
5 back and read Judge Rich's own account of the Patent
6 Act of 1952, we find out that Congress didn't really do
7 much of anything except to put its trust into the
8 patent lawyers that were drafting the Act. And, it's
9 quite remarkable, given his perspective on that, how we
10 got a decision like State Street out of the 1952 Act.

11 I want to say more generally that the reason we
12 don't have an economic framework is because it's pretty
13 hard to connect the kinds of very focused processes or
14 particularity-oriented decision-making that goes on in
15 the legal system with the macro perspective that one
16 would want to be able to answer the question: doesn't
17 the patent system, in fact, contribute to progress in
18 science and the useful arts? And what could be done to
19 make it contribute more positively?

20 I think there's not only a lack of framework
21 here, as we discussed before, that the Patent Office
22 does not employ, but the only time it has employed
23 economists is to get a sense of its own labor needs out
24 into the future. But I think it's worse than this,
25 that there's a fundamental hostility to research, and

1 we see this in the disappearance of the study of
2 business method patents from the American Inventors

1 supposed to take these into account is an interesting
2 one, because goals itself is something that remains
3 relatively unarticulated. What is the goal of the

1 legislation through the Congress, which takes years,
2 none of it goes too easily. It takes years because the
3 Congress, I think earnestly, generally speaking, tries,
4 in my opinion, to deal with the conflicting viewpoints
5 of so many people in the population.

6 The AIPA, which is the most recent I think
7 signed enactment -- there are more that I think may be
8 signed soon, I hope they will be signed soon -- was a
9 struggle that was amended time and time and time again
10 during its process because of the efforts, earnest
11 efforts, on the part of the Congress to handle the
12 conflicting interests it was being presented with. So,
13 to say that it doesn't take into account all that
14 should be taken into account I think is just flat
15 wrong.

16 The reality is in the last 20 years or so, the
17 Congress has amended the patent statute seven times to
18 increase the exclusivity of the right. Now, did they
19 do that because they were misinformed all of those
20 times? I don't think so.

21 Now, if you ask who should take policy into
22 account, I think we can't dismiss the courts, because
23 the courts do. The Supreme Court certainly does. But
24 it's also the district courts. When they fashion
25 equitable relief and they weigh the balances and so

1 So, who do I think should make all these
2 determinations? Yes, I think that all of these
3 players, in their respective areas of relevance, should
4 be making policy-like decisions, but the fundamental
5 policy rests with the Congress.

6 Now, the question I would have is this: who is
7 it that is smart enough to make all these judgments?
8 Well, I think the Congress works -- and pardon me for
9 borrowing something from economics about which I know
10 so little, my apology -- but I think it works on an
11 invisible-hand type of theory, that it makes lots of
12 assumptions that overall, in the main, if they make
13 these changes to the law or if they establish a law, as
14 it stands today, and in the main the economy will, by
15 virtue of probably the law of large numbers, letting
16 all these things happen, letting the system work and
17 run, it will work itself out and improve over time.

18 The fact is, the innovation economy of the
19 United States is quite healthy, healthier than any
20 other in the world. How do you attribute that? To
21 what do you attribute that? Is it attributable totally
22 to the patent system? Certainly not. But what was the
23 function of the patent system in the first place? It
24 was to not incentivise the behavior of invention, that
25 is going to happen. It was to incentivise the

1 disclosure of those inventions in a way that provides a
2 return on the investment in the first place.

3 I think that's exactly what has been missed in
4 many of the testimonies I've read and that have
5 appeared before this group. The focus on a disclosure
6 and on making sure that the public knows these
7 inventions and what's in them -- we will get to some of
8 them later on today when we talk about the sufficiency
9 of this -- but that's really what the patent system is
10 all about. And, we do that by getting people to make
11 all these disclosures and spend all this money on
12 patent applications by giving them some hope of a
13 reward.

14 There's certainly no guarantee of that reward.
15 How many patents actually ultimately produce the
16 significant reward that the inventors hope for when
17 they file and spend the money on it? I don't know, but
18 I don't think it's 100 percent. I think it's somewhat
19 less.

20 MR. WILLIAM COHEN: Okay, I am going to go to
21 Meg and Bob Barr. Before doing that, let me throw out
22 one more aspect of this, which I don't know if you're
23 going to want to address, but some people at the table
24 may.

25 To the degree that we do get into consideration

1 of policy goals here, how should they be articulated?
2 Is it the advance in innovation? Is it something
3 broader than that which takes into account potential
4 market effects, something such as economic welfare? If
5 it's economic welfare, is it total social welfare or is
6 it consumer welfare, that is consumer surplus alone?
7 That's on the table as well.

8 Let's go to Meg, because I know we had an issue
9 raised that went in your direction.

10 MS. BOULWARE: It sure did, and I'm happy to
11 respond to it.

12 First of all, I want to just mention that I was
13 president of the AIPLA when the AIPA was going through
14 Congress, and I want to echo some of the comments that
15 have been placed on the table. One of the things that
16 some of us found frustrating but, in the long run is
17 the best thing for the system, is during the AIPA,
18 there was no group that was not listened to, and I'm
19 talking about small inventors, universities, large
20 corporations, small corporations. And I am certainly
21 not going to tread into the economic arena, but I can
22 tell you from my personal experience of spending many,
23 many hours working on the AIPA that the Congress, that
24 I believe is the proper body to forge our policy,
25 certainly had input from every source imaginable. And

1 I think that's the right way to do it.

2 Now, the other thing I'd like to say is that
3 one of the things that the AIPA did was, for the Patent
4 Public Advisory Committee, we are mandated to have 25
5 percent of our membership representing small inventors,
6 universities and not-for-profits, which we do, and we
7 have some very good representatives. And I just want
8 to tell Professor Kahin they all signed off on the
9 report, not just me, and we had consensus on the
10 report. So, we thought, at least from our perspective,
11 whether you want to call it intellectual property or
12 intellectual capital, that it certainly is a
13 substantial part of the innovation that we see in the
14 business today.

15 So, I just wanted to be able to have an
16 opportunity to respond.

17 MR. WILLIAM COHEN: Bob Barr has been waiting
18 patiently.

19 MR. BARR: Thank you.

20 From where I sit inside a high-tech company
21 that is also sometimes referred to as a bellwether of
22 the economy, it's all about economics, certainly all
23 about money. There are many levels of economics, and I
24 am not trained in economics. I have learned a lot from
25 these hearings and the STEP hearings about economics.

1 The only economic work I ever did was in something
2 called discrete choice analysis. So the way I view
3 it -- and I want to make sure it's on the table, I
4 think it has been, but I want to keep it there -- is
5 that an innovator, an inventor faces two issues: can I
6 get a patent? And am I infringing anyone else's
7 patent?

8 They are both economic issues, I think, but the
9 second one is a huge economic issue. The first one is
10 unfortunately really easy to answer. Yeah. And the
11 second one is almost impossible, and I want to make
12 sure that as we proceed we keep that in mind. When we
13 look at obviousness and disclosure issues and scope of
14 claims, it's a good chance to talk about those things.
15 But, the risk management issues, economic issues
16 involved in determining whether an innovator has
17 freedom to innovate and to know the consequences of
18 that innovation in an economic sense are a major
19 problem.

20 MR. WILLIAM COHEN: How about Professor Cohen?

21 DR. WESLEY COHEN: A couple of reflections on
22 the prior points.

23 One -- and I think your follow-up question,
24 Bill, gets to this -- is how should policy goals be
25 articulated? Is it innovation, the economics

1 associated with innovation, or is it more broadly
2 social welfare, including in particular consumer
3 welfare?

4 While I suggested, as Mark indicated, that
5 innovation and notions of economic goals are congruent,
6 there are places at least that the literature would
7 suggest -- although I think the literature draws the
8 line historically too sharply -- that there may be
9 domains where those goals are not congruent. That is,
10 the goal of innovation and the goal of social welfare,
11 particularly consumer welfare, in that you have what's
12 in the literature referred to as the Schumpeterian
13 trade-off, essentially the notion that you need large
14 monopolistic firms to innovate -- and we can all
15 disagree with that and I disagree with that -- but
16 there are elements of truth buried in there. At the
17 same time, then, what comes with that is the cost then
18 of monopoly-like pricing, which detracts from consumer
19 welfare.

20 Now, if you buy those assumptions and that
21 argument, then those goals cease to be congruent. In
22 certain settings, that sort of trade-off may be
23 evident, though again, I think it's been historically
24 overdrawn, and my own research in this area would
25 suggest the same.

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1 So, I think things get interesting and a little
2 bit more contentious then, when we have that lack of
3 congruence. And then it really does become, you know,
4 who is to sort of be the fair broker here in some sense
5 to pit one goal versus the other? And I have no
6 suggestion -- I mean, that really speaks to issues of
7 several institutions in the U.S. other than perhaps the
8 Supreme Court itself. I don't see any obvious venue
9 outside of the courts at least where that might be.

10 Now, the question of, you know, hey, it's the
11 Congress that makes statutes and then the courts and
12 PTOs interpret, well, we know that in the making of all
13 statutes, there's an enormous amount of latitude, and
14 where you come down in that domain of flexibility can
15 have enormous consequences for the pace of innovation
16 and for economics, either considered narrowly or
17 broadly.

18 Clearly, the recent Festo decision going one
19 way or the other would have had some substantial
20 consequences for innovation. Even in the PTO, absent
21 the courts, there as well they can exercise a fair bit
22 of latitude with important consequences for innovation
23 and economic welfare.

24 Consider, for example, their revision of the
25 utility guidelines in biotech patents, that may be

1 having an important effect there. So, while I would
2 surely agree that Congress should be attentive to these
3 broader issues, I would disagree that, you know, they
4 lay out the statutes, that provides the marching
5 orders, and everybody just follows thereupon and should
6 not worry about consequences for either innovation or
7 economics from that point on.

8 Finally, are we going to talk about the issue
9 of disclosure later on that was raised by Mr. Myrick?

10 MR. WILLIAM COHEN: I think it will probably
11 come up in the context of enablement and written
12 description.

13 DR. WESLEY COHEN: Okay, because I have some
14 research and so on that might speak to the disclosure
15 role of patents in the U.S., and U.S. versus other
16 international settings and so on. So, I'll hold on
17 that until then.

18 MR. WILLIAM COHEN: Let's try John Duffy.

1 economics. Whether, in fact, it does consider
2 economics is maybe a separate question.

3 But the question of whether the other
4 institutions, like the courts and the Patent Office,
5 should consider economic goals, is in part governed by
6 Congress' own decisions. Congress not only makes
7 decisions about what economic goals or what legal goals
8 to pursue, it also makes decisions about which
9 institutions will be making the decisions, which
10 institutions will have delegation of power. In the
11 patent system, unlike some other areas of economic
12 regulation, the delegations are I think much more
13 narrow.

14 The courts do not have a Sherman Act at their
15 disposal, which most commentators who have looked at
16 the Sherman Act -- it's an extraordinarily short
17 statute -- have recognized that as effectively
18 delegating power to the courts to come up with some
19 common law of antitrust. Well, that is an enormous
20 delegation of power to the courts, and therefore, the
21 courts are going to be the chief policy-makers in that
22 field. And there are some ambiguities in the Patent
23 Act, but it is much more detailed in terms of giving
24 the courts the marching orders than the Sherman Act, as
25 just a comparison.

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1 The Patent Office is another agency to examine.
2 You can compare the Patent Office with New Deal and
3 progressive era agencies, which typically do have, for
4 example, one legal difference. Typically New Deal and
5 progressive era agencies have rulemaking powers, very
6 broad rulemaking powers, which are explicit delegations
7 of power by the Congress to the agency with the
8 expectation that the agency will hire economists and
9 lawyers and experts, technical experts, and try and
10 actually formulate policy.

11 The Patent Office, which was originally created
12 in roughly its modern form in 1836, lacks a rulemaking
13 power. That has had specific implications in that the
14 courts have told the agency that it won't be given
15 deference on its policy-making decisions.

16 So, I think Congress, to some extent, has
17 limited the ability of the legal actors below it to
18 make economic decisions, surely not precluding it, but
19 definitely limiting it, much more so than in other
20 fields. So, if we don't see attorneys making direct
21 economic arguments to the courts in the patent area
22 where we do see that in the antitrust area, we
23 shouldn't be so surprised, because there's a different
24 level of power in the courts in these two different
25 fields.

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1 In fact, actually, the other point is, given
2 the detail that does exist in the patent system, the
3 courts, in fact, I think don't really look very much at

1 you know, just a very basic question about, what should
2 be the optimal length of a patent term? Well, in the
3 literature, the literature has a range. It goes from
4 six months to infinity, which is a pretty broad range,
5 and those are published in peer-reviewed papers -- from
6 six months to infinity. So, that's a pretty broad
7 range actually. If Congress was going to choose in
8 there and say we are going to try to follow economic
9 analysis, they have got pretty large latitude.

10 MR. WILLIAM COHEN: Okay, we're going to need
11 at some point to move on to the obviousness discussion.
12 I want to get all these signs that are currently up,
13 though, in, and then we will make the break, and if
14 somebody sneaks a sign up in the next few seconds, I
15 won't notice it.

16 Let's try Steve Merrill.

17 MR. MERRILL: Well, the point was just made
18 that I was about to make, which is this question I
19 think deserves some consideration of what the state of
20 the art is, and the state of the art is pretty
21 elementary.

22 One thing we do know, from the work of Wes and
23 others, is that there's no macro answer to this
24 question of what the economic impact is, that it's
25 likely to vary tremendously among technologies, and

1 therefore over time, as new technologies become subject
2 to patenting.

3 It's particularly deficient in looking at how
4 patents are used, and particularly how patent
5 portfolios are used, because there's extremely limited
6 publicly available data. It's much more extensive on
7 questions, for example, of litigation, but there's
8 quite a vast area it seems to me that was mentioned
9 earlier.

10 For example, with regard to the strategic plan,
11 there are a host of proposals in the strategic plan
12 that are subject to or that are amenable to economic
13 analysis, indeed, amenable to experimentation, and
14 that's, it seems to me, an area that ought to be
15 pursued.

16 MR. WILLIAM COHEN: We have an economist here
17 with his sign up, Bob Stoner.

18 MR. STONER: Yeah, the point was made that,
19 where there are conflicting goals, like between
20 innovativeness, let's say on the one hand, and static
21 efficiency, losses from high prices, on the other, that
22 it's difficult to choose or pick one goal and that
23 maybe it's not clear how one would do that. But, it's
24 also clear to me that one can make decisions about
25 innovation policy and patent policy, taking into

1 account that there might be other effects or other
2 goals that society has that could be impacted by that
3 decision.

4 For example, you would want to then implement
5 patent policy in such a way that, recognizing the
6 importance of what patent policy is doing, that it
7 doesn't take too great a toll, for example, on
8 short-run static efficiency and that there may be ways
9 of implementing the patent policy that would lower the
10 toll that was taken. For example, on things that we
11 will talk about later, you know, trying to make sure

1 MS. DeSANTI: Bob, can I just ask you a
2 follow-up question going back to your earlier comment
3 distinguishing between the direct effects of the patent
4 system and the feedback effects? Obviously if you're
5 looking at feedback effects, such as effects on market
6 structure and ease of entry, those can have static
7 price effects, but would you also include in there --
8 do you mean to include -- effects on innovation?

9 MR. STONER: Yes, I do, and as a matter of

1 particular goal.

1 patents and those that have them. For the past number
2 of years, the PTO has been institutionally predisposed
3 to people getting patents, not those facing them, and
4 neither the Bar nor the parties affected nor Congress
5 have been able to overcome that.

6 MR. WILLIAM COHEN: Ron Myrick?

7 MR. MYRICK: I did sneak mine up, didn't I?

8 MR. WILLIAM COHEN: Yeah.

9 MR. MYRICK: On that last point, I am going to
10 agree with Brian. When the PPAC first was formed, one
11 of the things that PPAC first commented on was the --
12 what was it, the goal or -- the mission statement to
13 help our customers get patents. And we immediately
14 suggested that that be amended substantially, because
15 that is not the mission of the Patent Office. Nor is
16 it the mission of the Patent Office to sell poor
17 quality patents at profit for the United States
18 Treasury. So, there is a considerable amount with
19 which I agree with Brian on that point.

20 But I would say this, I get lost in feedback
21 effects and so forth, forgive me for that, but I think
22 there is a feedback effect, if you call it that, in the
23 fact that exclusivity is good, in my mind. I've seen
24 many instances where the fact of exclusivity forced
25 innovation.

1 Now, it may have been true that if exclusivity
2 were not there, there would have been many more people
3 producing the same thing at a cheaper price. But, in
4 the end, the reason we have an innovation economy, or
5 part of the reason -- I won't say the only reason --
6 but one of the reasons we have an innovation economy
7 that's been successful is that people are constantly
8 incentivised to find another way, and they very
9 frequently do find another way, and in many instances
10 it's a better way or it leads to a better way.

11 That's why I'm talking about this
12 invisible-hand concept, because no one is smart enough
13 to make the determination of what patent is going to
14 lead to true innovation down the road. Nobody is that
15 smart. I certainly would say that I've never met such
16 a person.

17 If one were to consider Galileo's telescope and
18 how it was perceived at the time it was developed, had
19 it been a patentable subject matter at the time, it
20 could not have been patented under a premise that it
21 was something that would lead to good innovation,
22 because in fact, at that time, that innovation was not
23 sought. Yet where did it take us?

24 So, my point is simply this -- maybe I'm
25 bringing in a social issue. Whether that's correct or

1 not is not the point -- the point is that the
2 brilliance of the best minds at the time said no to
3 that, and not because they were evil or whatever; they
4 couldn't foresee where it was going to go, whatever.

5 We are in the same situation today with all
6 manner of things. A patent on the vacuum tube would
7 have prevented anybody from making vacuum tubes, that's
8 true, but it certainly forced the production of the
9 transistor, and so on and so on. This goes on
10 throughout our economy. So, if that's a feedback
11 effect, I think it's a good one.

12 MR. WILLIAM COHEN: Let's end this part of the
13 discussion with Mark Banner, Jim Pooley and Wes Cohen.

14 MR. BANNER: Just very briefly, I want to agree
15 that all of the agencies we talked about and the
16 Congress, they all have a particular role in
17 implementing and considering policy. But, as Ron
18 alluded to earlier, and he just said this explicitly,
19 the size of that role I think is different.

20 I don't want to imply that the courts don't
21 think about policy at all. They do. They have to,
22 especially in those areas that are left free or left to
23 be interpreted by the statute. But, they aren't
24 unfettered, and they aren't the same as other agencies,
25 as John Duffy pointed out, they aren't as broad.

1 I made the comment about the first base umpire
2 because the first base umpire has a role in balls and
3 strikes, but it's a rather narrow role. The third base
4 umpire, for I guess a left-handed batter has a similar
5 role. The second base umpire doesn't have a role,
6 period, end of story, in balls and strikes.

7 Because the patent statute is more developed,
8 if you will, than some other statutes, I think the need
9 to go to congressional intent is much more restricted
10 than it would be in other types of laws. By and large,
11 congressional words, the words of the statute, in many,
12 many instances are going to be the most informative way
13 of interpreting the patent statutes, and congressional
14 intent is many times not needed. So, I agree with you.
15 I don't think congressional intent usually helps very
16 much.

17 My final point is, we talk about, is it good?
18 Is it bad? Does it help welfare? Well, we've talked
19 about consumer welfare, we've talked about total social
20 welfare, and I think we've also brought in the concept
21 of national welfare, because I think social welfare can
22 go well beyond our boundaries. And, ultimately, I
23 would suggest that total social welfare and national
24 welfare are the two more overriding concerns. Consumer
25 welfare -- and all of these terms are somewhat

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1 amorphous -- but consumer welfare frequently means,
2 does it cost less. And that isn't always good for the
3 country, and it isn't always good in total for the
4 system. Shirts made by prisoners may cost less, but
5 I'm not so sure that that wouldn't contribute to social
6 welfare. And those types of issues I think we should
7 be careful of, which welfare are we talking about.

8 MR. WILLIAM COHEN: Jim Pooley.

9 MR. POOLEY: Yeah, in listening to this
10 discussion, one of the things that strikes me is that,
11 you know, the abstract notion of whether or not we
12 should take economic issues into account here is so
13 beguiling it seems rather obvious. But, it doesn't
14 seem helpful to me that we approach the question by
15 doing things like counting how many references there
16 are to papers by economists in court decisions.

17 You know, let's remember that the PTO does most
18 of what it does -- apart from the advocacy function
19 that Ron properly pointed out -- on behalf of an
20 individual inventor who is trying to get a patent. The
21 public is not involved in what goes on in those
22 decisions. The courts make their decisions based on
23 the interests of the parties that are in front of them,
24 and occasionally they take the interests of the public
25 into account in deciding something like an injunction,

1 but it's fairly narrow, like the interest in having a
2 particular product available.

3 The courts don't -- in deciding the application
4 of obviousness principles -- don't look to feedback
5 effects and prospect theories and that sort of thing.
6 And frankly, I don't think they should. I mean, as
7 we've heard, as John pointed out, one of the realities
8 of the economic landscape -- and I'm not an economist,
9 I've gained an enormous respect for economists and the
10 work that they do in the last couple years -- but it
11 seems apparent that a lot of this is theory, and there
12 is a great deal of disagreement, and much of the
13 empirical research is self-selected and, you know,
14 comes up with rather vague measurements of the sort
15 that we've heard referred to here.

16 The right place for those kinds of inputs is
17 the institutions that have the broadest possible
18 constituency and the greatest opportunity for comment
19 by the public. And that's the Congress. So, you know,
20 I think all of these issues are terrific. The economic
21 issues should be examined, but where they intersect
22 with the highest policy issues, those are things that
23 are properly for Congress as the appropriate
24 institution.

25 MR. WILLIAM COHEN: Okay, we are going to let

1 an economist have the final word on this subject.

2 DR. WESLEY COHEN: Two points. One, just a
3 simple clarifying point: I did not mean to suggest
4 before that it was "just hard to make a decision where
5 there's a trade-off between static efficiency versus
6 dynamic efficiency and innovation." It may be hard,
7 but it's a trade-off, and one makes that decision on
8 the basis of -- at least from an economic perspective
9 -- total social welfare, though assessing that
10 implication, as you know all too well, Bob, often can
11 be a tough call.

12 Then that gets to Jim's point and some of what
13 Steve had said before. Sure, as someone who has worked
14 a lot empirically in this area as an economist, I would
15 agree that there's a lot of theory out there. One
16 might even call it kind of a logically based
17 conjecture, but things can go either way. Is there a
18 need, sure, for a lot more empirical study?
19 Absolutely. The theory, per se, is only a rough guide
20 to what you might want to start to study and understand
21 empirically. And absolutely, there's a lot more work
22 to be done. And answers may eventuate of the sort
23 that, well, policies do have different effects in
24 different domains and different industries and
25 different technologies, but that doesn't mean, then,

1 that we can't understand those in those settings and
2 try to conceivably develop policies appropriately or at
3 least monitor the impacts of policy decisions
4 appropriately.

5 For economic input to Congress, sure, that
6 would be fine, but I was just saying that it has always
7 surprised me, getting back to my earlier comment, the
8 degree to which attention -- not just economics, but to
9 really, as Gerry put it before, the fundamental notion
10 of the objective of progress or innovation, the degree
11 to which that does not seemingly inform decision-making
12 on the part, particularly of the courts, that as John
13 I'm sure rightly put, that there is less latitude in
14 that setting than other policy domains like antitrust,
15 but on the other hand, there's still a fair bit in many
16 instances.

17 MR. WILLIAM COHEN: Okay, let's move now from
18 the very global goals question and start looking at
19 individual aspects of the patenting system. We'll turn
20 to obviousness. Of course, our touchstone as an
21 antitrust agency here is always competitive
22 consequences. Maybe a place to start would be to get
23 any thoughts or points that you'd like to emphasize as
24 to what are the competitive consequences and the
25 impacts on innovation that flow from the way that the

1 obviousness standard is interpreted and applied.

2 Let's start with Gerry Mossinghoff.

3 MR. MOSSINGHOFF: Well, I would stand on my
4 statement back in February, it doesn't seem like it was
5 quite that long ago, but I looked at the date on it, it
6 was February 6th. I pointed out the fact that I think
7 what the Congress did in 1952 was really a magnificent
8 invention of its own, and that is to move away from
9 this concept of "invention," quote unquote. When the
10 Supreme Court mentioned invention, particularly
11 Justices Douglas and Blackman, when they mentioned
12 invention, it was awfully hard to tell whether they
13 didn't think it was non-obvious or whether it was not
14 the kind of thing to be patented or maybe because of
15 economic reasons they didn't want to give the patent
16 any enforcement capability. But nevertheless, moving
17 away from that concept and clearly and crisply
18 distinguishing between the types of things that can be
19 patented and are now covered in Section 101, versus the
20 obviousness standard in Section 103, was a very great
21 step forward. My own view is that the obviousness test
22 has worked very well for three reasons.

23 One, it was a good invention at the time it was
24 done in 1952. Two, the Supreme Court's Graham decision
25 was a very good decision in my view, very useful

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1 utilitarian decision, and particularly since you have
2 cases on both sides in the trilogy. You had the Adams
3 v. U.S. side where a patent was upheld, among other
4 things, for what are called sometimes secondary
5 reasons. And then finally, the creation of the Federal
6 Circuit Court of Appeals, where by my count there are
7 more than 700 cases interpreting it and involving
8 virtually the whole spectrum of science and technology.

9 It's used abroad. I'm not sure whether they
10 have copied it, but they call it something different,
11 they call it inventive step or inventive height, but it
12 is used abroad. I don't think any international
13 practitioner thinks that the standard used in the
14 European Patent Office, for example, works any better.
15 I think most feel it's virtually the same kind of test
16 that you apply. And the word "obviousness," obviously,
17 can be changed to clever, outstanding. I mean it's one
18 of these things, you know it when you see it, when you

1 the Patent Office by examiners, and I think it's
2 working very well.

3 As the Supreme Court pointed out in Graham,
4 it's very much like the reasonable man standing on the
5 corner, or the reasonable person standing on the
6 corner, that's a matter of interpretation. But, in
7 Graham the Supreme Court said that obviously the courts
8 are capable of doing that, courts and juries are
9 capable of dealing with that kind of a standard. And,
10 they specifically cite the tort standard that's used in
11 the United States.

12 So, I think there was some idea that maybe we
13 ought to change it, and I think that would be unwise in
14 the extreme and would be totally unsuccessful. I don't
15 think Congress could even consider seriously changing
16 Section 103. And then you get down to case-by-case,
17 and I think it's working very well.

18 MR. WILLIAM COHEN: I see Professor Kitch's
19 sign is up.

20 DR. KITCH: I just wanted to comment on a theme
21 that has been heard a number of places in the hearingshink it's
9 capable F Tj TReGrasedInce

1 right thing to think about, that is, we want patents to
2 go forward and innovations that would not have
3 otherwise appeared. If the innovation would have been
4 available at the same time and on the same terms to
5 society if there was no patent, then giving a patent to
6 that innovation has a lot of obvious social costs: The
7 application costs, the administration costs, the costs
8 on others who have to cope with the existence of that
9 set of legal rights, litigation costs, the impact on
10 the market where the patent exists.

11 The problem, however, is that kind of thinking
12 lends itself to thinking that you could apply a test
13 like that on a retail basis, that is, you could look at
14 each innovation and ask as to the particular innovation
15 whether or not the incentive and structure of the
16 patent system was necessary for it to appear. And, I
17 think that question is one that cannot be answered on a
18 case-by-case basis.

19 You may, in fact, see people who are very good
20 in innovation and do it so easily and so intuitively
21 that it appears that their activity is cost-free.
22 However, what you're seeing is someone who is a very
23 low-cost and very efficient innovator, and those are
24 the very people that you don't want to exclude from the
25 system.

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1 So, to the extent you're using a "but for"
2 inquiry, you really need to ask it about a class, a
3 whole class of inventions. I think that's what the
4 non-obviousness test is trying to do. It is trying to
5 draw a line between a class of inventions, where some
6 real inputs are required to depart from the tried and
7 true and the known and the understood and do something
8 different -- that class of innovations from really fake
9 innovations, imposter innovations, which although they
10 claim to be inventions are, in fact, something that
11 everybody has known how to do, and known how to do for
12 a long time, and society is getting nothing for the
13 innovation.

14 So, the critical test focuses our attention,
15 asks us to inquire, what do people who know something
16 about this area, people skilled in the art, what did
17 they know? And, did they know enough so that it would
18 have been obvious to them to come up with this
19 innovation? It's I think a pretty common sense kind of
20 class distinction and one that points the inquiry in
21 the right direction, although in specific factual
22 contexts, it, of course, can be quite difficult to
23 apply and involves a good deal of judgment.

24 MR. WILLIAM COHEN: You've actually answered my
25 question and the next two questions that I would have

1 had. That's wonderful. We have, I can see, at least
2 three issues that have been thrown out, and I think we
3 should try to separate them and yet get information on
4 all three.

5 One is the likely competitive effects of
6 obviousness. Then Professor Kitch introduced the
7 so-called "but for" thinking, the thinking that as an
8 organizing principle, patents perhaps should be issued
9 if, but only if, they're necessary for the innovation.
10 The question there is, is that a sensible principle to
11 begin with? And then the third issue which I heard
12 from Professor Kitch is, is that a practical test?
13 Could it ever be applied in a sensible fashion? These
14 are all different elements. Let's try to get at any of
15 them.

16 Bob Barr?

17 MR. BARR: Let me try to tie them together. I
18 think the "but for" test is a good policy goal. I
19 think the obviousness standard is a good standard. I
20 think the application of it has failed miserably, and I
21 can prove it.

22 I can prove it because I know a lot of people
23 who are very skilled in the art, and I would tell them
24 that's what they are, they work for my company. But,
25 by definition, some of them must be of ordinary skill

1 in the art, if that means average, and they
2 independently invent things every day, or they
3 independently come up with things every day that have
4 been patented in the name of non-obviousness.

5 In other words, someone decided at the Patent
6 Office, I guess -- well, I know -- at the Patent
7 Office -- what I mean there is, the Patent Office
8 decided under the guidelines given to them by the
9 Federal Circuit that to issue this patent, because it
10 would not be obvious to a person of ordinary skill in
11 the art -- ordinary skill in the art at the time the
12 invention was made -- and yet maybe the next day a
13 person of ordinary skill in the art makes the same
14 invention. So, I think that disproves it.

15 If you want further evidence, invite some
16 engineers into the room and discuss patents with them,
17 show them patents, tell them what's patented. I think
18 the application of the standard has failed. I think we
19 can go into that and I know we are going to, but I
20 think I can prove it.

21 DR. KITCH: In the Patent Office or in the
22 courts as well?

23 MR. BARR: Well, in my opinion, it then takes
24 us to the issue of what the Federal Circuit has done to
25 the Patent Office, what strictures they have put on the

1 Patent Office. I guess they are not represented here
2 to speak for themselves, so I guess I'll speak for them
3 a little bit, but they are told that they have to allow
4 a patent unless they can point to express motivation to
5 combine, express or implied in the prior art. As Cecil
6 Quillen points out, that treats the person of ordinary
7 skill in the art as a literalist. All that person can
8 do is look at what's already there and what motivation
9 is already there and take that and move forward. So,
10 the Patent Office, under that rule, has to issue
11 patents that even the examiner might feel are obvious.

12 MR. WILLIAM COHEN: Let's hold in abeyance some
13 of the Federal Circuit and PTO issues and "suggestion
14 tests." We'll get to that.

15 Jim Pooley.

16 MR. POOLEY: Actually, I think part of my
17 remarks may touch on that, too --

18 MR. WILLIAM COHEN: Okay, go ahead.

19 MR. POOLEY: -- but I think all of these things
20 are connected.

21 MR. WILLIAM COHEN: Yeah.

22 MR. POOLEY: The "but for" standard strikes me
23 as a useful analytic tool to sort of check our
24 direction in a policy sense, but not a particularly
25 useful standard for measuring specific inventions. In

1 that respect, I think I absolutely agree with Gerry
2 that the standard that's been developed under 103
3 actually works quite well, among lawyers, and actually
4 it works reasonably well at the PTO, notwithstanding
5 what Bob just said. You know, we may need more
6 tweaking on the notion of inherency to help us through,
7 but as a structure for judging whether a particular
8 invention is worthy of the patent grant in relation to
9 the prior art, it's a very good standard.

10 The problem that I see is the -- and this is
11 where it affects competition -- the problem is in the
12 enforcement system, because the way in which
13 obviousness is actually applied in the courts is known
14 by everyone who does transactions. And, the inherent
15 unpredictability -- some would use even stronger
16 words -- that is represented by the way in which we
17 actually apply obviousness, and the way that the
18 secondary factors mentioned in Graham have been
19 transmuted into objective factors that are required to
20 be considered, not by judges and lawyers who are
21 talking about the policy issues or the formulation of
22 obviousness, but by jurors who have, in the process of
23 trying to do their job, been overwhelmed by the fact
24 that they are to determine the scope and content of the
25 prior art, and now they see coming at them an issue

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1 that they really can get their arms around.

2 It's the commercial success of the product.

3 Oh, by the way, they're also supposed to make neat
4 divisions about whether or not the patented feature is
5 really the cause of the commercial success, but I can
6 just tell you that the story line of commercial success
7 will swamp everything else. You know, everyone who
8 engages in transactions over patents knows this, and
9 knows that at the end of the day, if you don't engage
10 in whatever the transaction is, you will have to face
11 that kind of circumstance in court and, you know, with
12 some others that are tied to the difficulties involved
13 in dealing with jurors applying that sort of standard.

14 So, to the extent that those kinds of issues
15 can be applied perhaps outside the court system with,
16 for example, an opposition system that really works, we
17 might be able to improve the effect of this standard on
18 the market, if you will.

19 MR. WILLIAM COHEN: Bob Stoner.

20 MR. STONER: Yes --

21 MS. GREENE: Bob, could you please turn the
22 microphone so we make sure that you're actually getting
23 transcribed?

24 MR. STONER: Sure.

25 MS. GREENE: Thanks.

1 MR. STONER: As has been suggested, an
2 important reason to be concerned about the obviousness
3 standard is that if you have too easy a standard of
4 patentability and you grant all kinds of obvious
5 patents, even if individually each of these patents is
6 of dubious importance and is relatively narrow, their
7 cumulative effect, I think, could be to put up a patent
8 thicket, or a web of patents, that in effect has some
9 breadth and some ability to impede competitors. Such
10 breadth, however, is not the breadth that one may
11 deliberately be trying to selectively build into the
12 patent system to assure appropriability, but rather,
13 the careless breadth that comes from overly permissive
14 patent standards that promote defensive patenting and
15 large patent portfolios.

16 If one takes this view, then I think it becomes
17 very important, or most important, to reform the
18 obviousness standard not in relation to trying to turn
19 it into some sort of a "but for" method test that has
20 been indicated, but rather, to fashion a much more
21 practical sieve to separate the wheat from the chaff in
22 the patent space.

23 I'm not that familiar on a first name basis
24 with the Federal Circuit decisions, but from what I've
25 read in the record here, it seems that there is some

1 consensus that this seems to be opposite to the
2 direction that the Federal Circuit is currently moving.
3 So, I would just throw that out.

4 MR. WILLIAM COHEN: Ron Myrick?

5 MR. MYRICK: Thank you, a couple of thoughts on
6 what was just said.

7 I think the obviousness standard itself, in the
8 abstract, is fine. To some degree, I'm not totally
9 sanguine about how it's applied. But on balance, I
10 think most of the patents that come out of the Office

1 but for the fact that those patents were filed and
2 issued.

3 Now, maybe they should not have been issued in
4 some instances, but the reality is so much software is
5 published only in object form: unreadable, unusable.
6 But for the fact that that information is disclosed in
7 the patent that reflects that software, that
8 information is unavailable.

9 So, I'm not so sure I know how this thing cuts.
10 Whether the disclosure offsets the fact that some
11 patents come out that shouldn't have been issued, I
12 don't know. I think, though, a "but for" test is
13 unworkable. I think saying patents only should be
14 issued when they're necessary for innovation, who in
15 the world knows that? This goes back to my earlier
16 remarks. There is no one that is smart enough to know
17 that and no process that's workable enough to make it
18 function in the real world.

19 Finally, with regard to an opposition system --
20 will we come back to that?

21 MR. WILLIAM COHEN: No, not directly. That was
22 a --

23 MR. MYRICK: One comment on that.

24 MR. WILLIAM COHEN: Yeah.

1 far as it goes, but sometimes it goes too far, because
2 frankly, unless you carefully construct an opposition
3 system -- and I don't know of any that's been
4 adequately constructed for this purpose -- the
5 opponents paint big targets on themselves when they
6 oppose a patent of another. It happens in Europe all
7 the time.

8 So, to say that the opposition system is going
9 to fix the problems of issuing bad patents in the
10 Patent Office isn't realistic, because people are not
11 going to go paint those targets on themselves. You
12 know, it's a rare thing when I am going to allow
13 anybody to oppose another person's patent, unless I
14 don't care. Well, if I don't care, I'm not going to
15 spend the money. If I do care, I'm certainly not going
16 to tell somebody how much I care by opposing that
17 patent.

18 So, that's not a necessarily good solution to
19 this problem. I think the issue of concern mostly is
20 how -- and we're not reaching that at this point -- how
21 the standard is applied in the PTO, pursuant to the
22 Federal Circuit decisions. That's a different issue
23 from the standard itself. The standard is a good
24 standard.

25 MR. WILLIAM COHEN: John Duffy.

1 probability that the Supreme Court might actually
2 unsettle the law. So, if you think that a broad view
3 of -- pardon me, if the "suggestion test," which takes
4 a fairly confined view of what things will be
5 considered obvious, if you think that's good policy,

1 there are obvious patents out there -- they are not
2 only just economically trivial patents. When we say
3 that obviousness is a triviality standard, we're
4 talking about technical triviality, and some patents
5 can be technically trivial and economically enormously
6 important.

7 I actually in my presentation this summer, I
8 gave as one example the Selden patent on the
9 automobile, an immensely broad patent, which still
10 covers virtually every car on the road if it were in
11 effect as it was drafted. But, one could also think
12 that it was a trivial patent, technically trivial, and
13 that the combination of the various features into an
14 automobile was something that everybody who was skilled
15 in the art could have easily done at the time, and
16 Selden just happened to be the first, or happened to be
17 the first to make it to the Patent Office.

18 So, I think there are two reasons to have a
19 non-obviousness doctrine. One, to prevent the
20 proliferation of paltry patents. The other is to
21 prevent some technically trivial patents which might
22 have large economic effects, and the Selden patent is
23 one.

24 The one-click patent, Amazon one-click patent,
25 might be another example which perhaps doesn't have

1 enormous economic consequences, but did seem to have
2 significant economic consequences, at least it was
3 significant enough for one firm to care enough about it
4 to spend a lot of money litigating the issue. And,
5 that might give you something that is trivial and that
6 is not produced by any technical leap of imagination,
7 but simply appears in the nineties because of the
8 advent of the new technology, which Amazon itself did
9 not create.

10 MR. WILLIAM COHEN: Meg?

11 MS. BOULWARE: Professor Duffy touched on a
12 point I just wanted to make briefly, and that is that
13 the obviousness standard is a threshold, and that's a
14 threshold for patentability. And it seems to me that
15 when I've participated in discussions of this nature,
16 it is the patents that kind of cluster around that low
17 threshold where the people perceive the problems.
18 Professor Duffy said trivial, these are the patents
19 that just made it over the threshold. There seems to
20 be much more time viewing those low threshold patents
21 than the standard itself, which I think is a good
22 standard, and the patents that are way beyond that
23 threshold, patents on Nobel Prize winning technology
24 and the like.

25 As far as the patents that are on the low end

1 of the threshold, from a practical standpoint that I
2 look at them in my day-to-day practice, the low
3 threshold patents to me, generally we can deal with
4 them, innovating around them, winding through them, so
5 that our clients can continue to innovate without the
6 problem of infringement issues.

7 And I couldn't leave the mic without saying
8 that it was not a romantic situation with the AIPA.
9 I've been romanced, and that wasn't it.

10 MR. WILLIAM COHEN: I'd like to throw one more
11 aspect of the question on the table, and then we'll
12 open it up and move into some of the litigation issues
13 as well. But, we have heard different views at
14 different times as to the types of conduct that the
15 obviousness standard is trying to provide incentives
16 for.

17 Is it trying to provide a reward for the
18 invention, to make sure that you get a patent and an
19 opportunity to exclude in settings where you have
20 inventors, and create incentives for future inventors?
21 Is it supposed to go beyond that and take you into
22 incentives to develop an invention that has already
23 been made? This takes us into issues of the prospect
24 theory.

25 We have had quite a bit of discussion about

1 this. We had a panel this summer when John Duffy was
2 there, but we didn't have Professor Kitch available at
3 that time. I wonder if there is anything you would
4 like to contribute on that aspect of the discussion as
5 well.

6 DR. KITCH: Well, it all depends whether you're
7 kind of asking a question about academic theory or
8 whether you're asking a question of positive fact about
9 what the patent system, as it operates on the ground,
10 does. And, it seems to me if you're looking at the
11 patent system as it operates on the ground, it does
12 some of both. In fact, it depends very much on the
13 particular patent and how it's configured in relation
14 to the technology and so on, but you see both effects
15 at work.

16 MR. WILLIAM COHEN: We are well into the
17 obviousness discussion. Let's lift the restrictions
18 that I'd temporarily placed on talking about some of
19 the practical application issues. Two in particular I
20 think we want to be sure that people express their
21 views on.

22 We have already heard about the operation of

1 views on that. A further issue could be, and we have
2 heard it touched on as well, the commercial success
3 factor, the operation of the secondary factors,
4 potential difficulties in trying to sort out and make
5 effective the connection between the commercial success
6 of a product and the invention that's at issue.

7 If any of you would like to comment on the
8 obviousness questions to this point or these more
9 practical litigation-related questions, feel free now.

1 company to do so. So, there, I think every drug that
2 comes out in the biotech and pharmaceutical area, the
3 "but for" test is almost prima facie established.

4 I think there are other industries, other
5 technologies, where that may not be anywhere near as
6 clear. So, I think you really can't answer it in a
7 sweeping way. You have to get down to the technology
8 by technology.

9 I know this is a patent panel, but one of my
10 closest allies in international work when I was head of
11 Pharma was the Motion Picture Association, because they
12 have the exact same problems -- for hundreds of
13 millions of dollars, develop a full-length movie which
14 could be copied for a tiny, tiny fraction of that. So,
15 I think you really do need to look at the specific
16 technology.

17 Next, I think I would say that the -- and I
18 think it's in line with what Jim said about the
19 secondary test for obviousness. I would submit that
20 it's secondary only in a temporal sense, and not in a
21 hierarchical sense. I don't think it's necessarily
22 below the standard that you would apply, I think it
23 follows the standard that you would apply. And I think
24 secondary has a dual meaning, and I would say it has a
25 temporal meaning, rather than a hierarchical meaning.

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1 It also, I think, is symptomatic of the jury
2 system. Juries are asked to consider exquisite
3 computer architecture or biotechnology inventions, and
4 their eyes are pretty well ready to be glazed over, and
5 all of a sudden somebody comes up with sales of an
6 invention, what they were before or after, and it's
7 something they understand. The average juror can get
8 their arms around that conceptually.

9 I really believe that it kind of goes -- the
10 emphasis placed on the so-called secondary
11 considerations I think is symptomatic of the fact that
12 we have lay jurors who, in many technologies, really
13 can't get down to the technology-specific issues and
14 are left with things they can understand: sales
15 increases over a period of time.

16 MR. WILLIAM COHEN: Mark Banner?

17 MR. BANNER: The original question you asked
18 dealt with what are the likely competitive effects of
19 obviousness, and I would answer that by saying that the
20 way obviousness is applied has resulted in greater
21 competition. The primary reason for that is something
22 that Ron mentioned about the disclosure requirement of
23 the patent system in general and, in fact, making that
24 standard, disclose to the world what they're doing, and
25 companies like Ron's can make appropriate decisions

1 about which patents to avoid. And when they do that,
2 they don't decide to go out of business and refund
3 shareholder money. They design around by and large,
4 and that is in my view a great stimulus to competition.

5 The next set of questions really went to
6 whether there's another standard that could be either
7 drafted onto, or substituted for, the current
8 application of the obviousness standard. Now, if I had
9 to grade, as a professor, the obviousness standard as
10 applied over the past nearly 50 years and certainly
11 since *Graham v. Deere*, I would probably give it a
12 B-plus. It's good, but it's not perfect.

13 The "but for" test, which --

14 UNIDENTIFIED SPEAKER: That's an average grade.

15 MR. BANNER: Is that an average grade?

16 MR. DUFFY: At UVA.

17 MR. BANNER: At Georgetown, they don't let me
18 give grades sometimes that I want to give, which I
19 would give to the "but for" test, which would probably
20 get a D. I would probably have to go see the dean and
21 make all kinds of pleading as to why I would give a D,
22 because apparently that's no longer permissible. But,
23 in any event -- a separate set of hearings -- in any
24 event, the reason for it probably goes mostly, in my
25 mind, to the practicality of it.

1 As a practical matter, you would be going to
2 something even more difficult to apply by a judge or
3 jury than the current obviousness standard. I suggest
4 that if you just read the court decisions or the jury
5 instructions that are given by courts to juries, you
6 can almost understand the obviousness standard, almost.
7 So, I think it's probably a better standard even as
8 applied.

9 There are areas where it needs to be enhanced.
10 I think one of them I alluded to earlier, the whole
11 idea of commercial success, which juries can get their
12 arms around. And judges are no different in my mind,
13 in my experience at least, than juries. They like that
14 stuff. They understand that stuff.

15 But commercial success too often misses the
16 point. And, much as I try to promote -- as a patentee,
17 I talk about commercial success -- I at least try to
18 find a nexus, an honest to goodness economic nexus, not
19 just between the gizmo, but between the claims, because
20 I know a good defendant will come up and say it was as
21 successful as some other thing that didn't have the

1 product. I don't think, at least patent trial lawyers,
2 have focused on that issue enough. I think it's an
3 area for great judicial development, because I just
4 don't think the nexus requirement is an area where
5 there's been enough thought given. That all starts in

1 Federal Circuit. And he argued that case.
2 Essentially, there must have been 50 references in the
3 PTO, but not in the record of that case, where there
4 was a motivation to combine a happy face with a
5 pumpkin-colored garbage bag, but they weren't in the
6 record. That patent never did issue, as I understand
7 it.

8 So, I think it was a bad case based on the
9 peculiar facts of the case, but I do think it's being
10 fairly aggressively applied, and sometimes overly
11 aggressively applied. So, I think the law needs to be
12 developed in that regard.

13 Motivation is something that I think the law --
14 there being implicit motivation or knowledge of
15 motivation of those of skill in the art, ordinary skill
16 in the art -- will have to come out I think in further
17 cases, but I think literally, if you restrict this to a
18 literalism approach, you are going to end up with too
19 narrow a view of what it takes to find a patent not
20 patentable for obviousness in the PTO or invalid for
21 obviousness in the courts.

22 One reason why I think the obviousness standard
23 isn't always being well applied by the PTO,
24 particularly in some arts, particularly in some
25 technologies, and that has to do with resources --

1 resources not only of time and people and hours within
2 which to examine the patent, but just the prior art.

3 There are some industries where a great deal of
4 the prior art is not the kind of prior art that
5 traditionally has been available to the examiner, at
6 least equally available in the search records of the
7 PTO. And, in those particular industries, at least
8 when I've litigated cases in those industries, I have
9 had to go look for prior art well outside the PTO, in
10 such things as, you know, user lists, usernet lists on
11 the web, and such things as technical papers presented
12 in areas where there's no examiners and certainly no
13 filing in the PTO.

14 But, I think there are areas where you get an
15 awful lot of patents issued that would not meet -- even
16 with the examiners we have -- would not meet the
17 obviousness standard if the examiner had the facility,
18 had the prior art right in front of him or her. That
19 is a particular problem that I think the business
20 community, as well as the patent community, need to
21 address, in part through funding of the PTO and in part
22 through the resources that are available to the PTO.

23 MR. WILLIAM COHEN: Let's try Brian Kahin.

24 MR. KAHIN: Well, I am going to suggest a
25 totally radical approach to the non-obviousness issue,

1 which is actually also very on the ground, and it will
2 anticipate this discussion on disclosure, which
3 unfortunately I will not be around for. I appreciate
4 Bob Barr's bringing in the sort of forgotten party
5 here, the engineers, who are the ones that we actually
6 look to to create the stuff.

7 I think that a very practical test, and
8 unfortunately there is so much noise in the system
9 because of the willful infringement problems and other
10 things that inhibit the flow of information, you could
11 not apply this right away, but the really practical
12 test on obviousness would be, do engineers actually
13 read patents? Is there enough value in the patents to
14 make them worth reading given all the opportunity
15 costs, given all the costs in finding them and given
16 the alternatives in other sources of information?

17 The empirical literature -- Wes can certainly
18 speak to this more than I can, and most of what I've
19 seen comes out of Europe -- suggests that patents are
20 considered very low as a source of information in most
21 industries, pharmaceuticals and chemicals probably
22 being an exception. Of course, part of this is that
23 patents are not written really to disclose information,
24 except what information has to be disclosed to make
25 them legally enforceable.

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1 do, in a very immediate way, is confer the standing to
2 sue. That can have competitive implications when there
3 are not perfect capital markets supporting investment
4 in legal resources. Than immediately you have a
5 differential between large firms able to sue, and
6 perhaps smaller firms and possibly prospective
7 entrants, also small firms but not necessarily, who may
8 not have the access to the legal resources, which can
9 be just daunting and considerable.

10 So, just in that immediate way, even apart from
11 the creation of a patent thicket, but I think again,
12 it's that standing to sue that kind of is part of the
13 fabric of a notion of a thicket, but it's a separable
14 issue, can have considerable consequences for market
15 entry, for example, no less ability of a smaller
16 incumbent to ultimately compete with a larger one.

17 MR. WILLIAM COHEN: Bob Barr.

18 MR. BARR: Yeah, let me just start there, the
19 practical consequences of having to fight a patent in
20 court, I'll just estimate somewhere between \$3 and \$5
21 million, and you might lose. So you're at great risk,
22 and you're spending a lot of money. So, let's not
23 minimize that.

24 You know, the other aspects of the impacts of
25 patents that I just have to speak to, even if I do come

1 from another planet, the idea that we can identify
2 patents that are problematic and design around them and
3 invalidate obvious patents and so on, that's just --
4 it's even worse than impractical; it's impossible. To
5 know that a patent is pending, even if it's published,
6 and that somebody's intentionally trying to draft
7 claims on your product, and then to have them assert
8 the patent against you after it issues, after you have
9 designed something -- and maybe not just after it
10 issues, but a little while after it's issued to make
11 sure you've sold a lot of the product, so you have got
12 back damage problems, and then you have got problems of
13 changing the design -- I mean, this is the hold-up,
14 this is the counterpart of the thicket, is the hold-up
15 in the literature that I've looked at. And that's a
16 good name for it, because when you get held up, it's
17 pretty expensive to go to court.

18 Just a couple of other points. On the
19 disclosure issue, something to think about, first of
20 all, no, engineers don't read patents. They find them
21 hard to read. They find it hard to locate patents of
22 interest. I have encouraged them to do that. We have
23 cross-licenses with companies, and I like to think of
24 them as technology transfer, but I can't get people to
25 do that. It seems the only time they read patents is

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1 when they write e-mail to each other in an unprivileged
2 communication saying, oh, wow, this one's a problem.

3 And another thing on the disclosure point,
4 please be aware that people in corporate patent
5 practice -- many that I've talked to -- in part, in
6 evaluating what to patent, we look at what we call
7 detectability. Can we keep this a trade secret?
8 What's the point of patenting something that we're
9 going to disclose and then make available to others and
10 then they will be able to infringe it and we won' 6 eva

1 patents to be able to even locate which ones are
2 problematic. I used to say only IBM does clearance
3 searches -- maybe GE does now, I'd be interested in
4 hearing about that -- but IBM tells me even they don't
5 do clearance searches anymore.

6 One reason for that is because of the
7 willfulness problem, that if you go out and start
8 looking for trouble and you find a patent -- and even
9 if you put it over in this pile here, say, oh, this
10 one's not a problem, later on that can come back to
11 haunt you -- and then you do find them, as I said, it
12 can be prohibitive to design around.

13 Lastly, be aware of what's happening out there
14 right now. There are several companies entering --
15 there are two businesses growing. One is mining
16 portfolios for companies that need revenue. Well, a
17 lot of people need revenue these days, and few of us
18 have it, so people are mining portfolios to go look for
19 patents that even the patent holder didn't know they
20 had, didn't know was valuable. It's hard to believe
21 that a patent contributed to the body of knowledge if
22 even the patent holder didn't know about it. But, the
23 idea that some of these patents lie dormant and are not
24 a problem, just because they're on the low end of the
25 threshold, no, they're the biggest problems, because

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1 people are actually looking for them these days.

2 The other is that people are going around
3 buying up patents from distressed companies and dying
4 companies. I mean, I'm offered those a lot, and I'm
5 looking at them. So, a lot of patents that might
6 otherwise die a peaceful death are quite alive. For
7 those companies that have revenues, it's a problem.

8 Thank you.

9 MS. GREENE: Does Ron or anybody else want to
10 comment on Bob's observation that the companies really
11 don't have the ability or the incentive or the will to
12 sort of track and follow the publications that come out
13 or the actual patents that are issued, even if it is
14 within, I don't know, a narrow area? Does it vary from
15 industry to industry? Ron?

16 MR. MYRICK: I'm not hear speaking for General
17 Electric today, so I'll mention a company that I have
18 some connection with and just let it go at that.

19 That particular company does, in fact,
20 encourage avoidance. In fact, it's part of that
21 company's policy to avoid infringement of everybody
22 else's patents. So, there's been significant training
23 on vehicles for searching for patents that would be
24 apposite to a particular new product. In fact, every
25 product that gets sent out the door gets checked, and

1 avoidance is a prerequisite.

2 This is just a given, because the cost of
3 ignorance is too high. Long runners that are out
4 there, for which there is a latent patent problem that
5 only appears after you've produced a million units, but
6 perhaps there was a marking on the product that was
7 being produced by the opponent, and so there's damages
8 sitting right there running, it's just too big a risk.
9 So much so, in fact, there is a significant effort.

10 As far as engineers reading patents, they
11 certainly do. In fact, tools are provided to them so
12 that they can find the ones that they need to find.
13 They don't read them, you know, just for bedtime
14 reading, but it's part of the job.

15 But I appreciate the problem. I appreciate the
16 issue. I personally don't subscribe to everything
17 that's been discussed here, but I think we're going to
18 have to break for lunch, so I don't want to have to
19 spend too much time at this point. I think it may come
20 up later on, but I reserve some further comments on
21 this subject, but I did want to respond to your
22 question.

23 MR. WILLIAM COHEN: Okay, we've got the last
24 two signs. Let's take Wes Cohen and give Jim Pooley
25 the final word this time.

1 the impact of -- well, to put it simply -- patenting on
2 R&D activity across the U.S. manufacturing sector, that
3 we are just now touching up prior to the submission.
4 And we tried pretty hard, though I think our measures
5 were deficient, to find an effect of information flows
6 due to patent disclosures on the kinds of relationships
7 that we were looking at there in that evaluation. And
8 it did not show up.

9 Now, we are going to actually do the same
10 analysis for Japan, and given our other more
11 descriptive exercise in Japan, I would imagine or hope
12 that it would show up there. But again, there are all
13 kinds of caveats and qualifications associated with
14 measurement error and so on, but we did not see a
15 clear, robust impact of disclosure. That's not to say
16 that it's not often important in particular settings
17 and so on, but this is a fairly coarse aggregate
18 exercise, and in that context, we did not see it.

19 MR. WILLIAM COHEN: Getting harder to knock
20 down the final signs than I thought. I think Ron had a
21 further thought.

22 MR. MYRICK: I did want to make one thought
23 before we go to lunch so that perhaps we can have this
24 discussion afterwards. That was just one of the
25 concerns that Bob has mentioned, and I think it's a

1 very valid one, is the aberrational behaviors that are
2 caused by the willfulness standard. So, if we want to
3 talk about something that should be adjusted and to
4 eliminate some aberrational behaviors, we could talk
5 about that one.

6 MR. WILLIAM COHEN: Ed, and then Jim.

7 DR. KITCH: Well, I was just, Professor Cohen,
8 wondering if you had looked at the question as to what
9 kind of informal information flows, through meetings
10 and -- would occur between firms in a world without a
11 patent system.

12 DR. WESLEY COHEN: Yeah, that's a good question
13 in the sense that the question that Professor Kitch is
14 posing is, well, do patents provide for the disclosure
15 of information via conferences, via even informal
16 conversations, et cetera? Do companies, you know, say,
17 okay, we can only do these other kinds of things by
18 virtue of product protection? Just to keep it brief,
19 we considered that to the extent that our limited data
20 -- permit, and I think the paper that's coming out will
21 have a footnote to that effect.

22 Frankly, we did not -- again, the evidence is
23 indirect, and this concern has been raised before, but
24 we don't see patenting activity as, in any sense, a
25 kind of key to a green light in enough instances for

1 that to really have an effect. That's not to say that
2 companies don't say, hey, before you go out and present
3 this on occasion, we better make sure it's patented.
4 You know, I would not deny that, but again, I'm talking
5 about aggregate data and overall trends.

6 MR. WILLIAM COHEN: Jim?

7 MR. POOLEY: Very briefly, I would just
8 reinforce the usefulness of discussing the effect of
9 the willfulness issue, because indeed, in our
10 observation, there are many industries and companies
11 that specifically avoid looking at patents, which is
12 terribly ironic. But beyond that, especially it seems
13 to me in emerging markets, the kind of review and
14 examination that a company needs to do is sometimes
15 either beyond its resources or appears to be an
16 impossible task because new patents keep popping up all
17 the time.

18 The basic idea is that somebody participating
19 in an emerging market, you know, takes on an enormous
20 amount of risk specifically because of patents, because
21 they don't know what they're going to need in order to
22 operate freely in the area. And, you know, if you talk
23 to many of them, they would say to you, if only we
24 could know and be able to approach the people who had
25 these rights and be able to get them resolved, you know

1 at once, boy, it would make fT- n

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1 AFTERNOON SESSION

2 (2:00 p.m.)

3 MR. WILLIAM COHEN: We're ready to begin our
4 afternoon session. We have the same set of panelists
5 as we had this morning with one exception. Jay Thomas
6 has replaced Brian Kahin. Jay is a professor of law at
7 the Georgetown University Law Center, another person
8 who, during the course of these law hearings, has moved
9 from an associate professorship to a full professor-
10 ship, along with John Duffy. So, congratulations to
11 both.

12 Professor Thomas has published numerous
13 articles on intellectual property law, most recently in
14 the Boston College, Illinois and UCLA Law Reviews. He
15 has co-authored a patent law case book and a treatise
16 on intellectual property, and we're very glad to have
17 him join us.

18 Moving into the afternoon session, I think the

1 on, something has become -- this refers to something
2 that Steve was talking about before. Breadth can
3 actually have an impact, considerable impact, on the
4 way patents are actually used. And what I mean by that
5 is in our prior research, my collaborators, Dick
6 Nelson, John Walsh, a number of others and myself,
7 essentially were able to -- simplifying a complex --
8 invariably complex world -- find a few different
9 patterns in the way that patents tend to get used, and
10 they distinguish between what we call complex versus
11 discrete product industries.

12 Essentially complex product industries are the
13 sorts of industries where you see the patent
14 portfolios, patent thickets, where it takes a lot of
15 patents, or there are a lot of patentable elements,
16 associated with the commercializable product that
17 necessarily impose a lot of mutual dependence across
18 patent holders that will often lead to the kinds of
19 massive or broad cross-licensing that we see. Whereas
20 in other industries, chemicals, to some extent drugs --
21 although the ground may be shifting here a bit in some
22 areas -- it takes relatively fewer patents, okay, to
23 cover a commercializable product, and then patents end
24 up getting used in a different way, more in the way
25 that at least economists have conventionally thought of

1 them being used. I had talked about this in the prior
2 hearing.

3 So, breadth, what does breadth really do?

4 Well, the greater the breadth, okay, the fewer the
5 patents in many instances you need to cover a
6 prospective product. So broader patents can have the
7 effect of essentially reducing the number of patents
8 that you need -- within limits -- to cover a product,
9 and that might shift you into one of these sorts of
10 uses versus another. Then you have to think about,
11 well, what are the implications for innovation and
12 competition, okay, of being in one regime, call this
13 the simple and discrete product industry regime, versus
14 the complex one. And, there we talked a bit about
15 particularly some of the competitive implications of
16 patent thickets. That's one thought on breadth.

17 Indeed, in Japan, for example, everything is a
18 complex product industry per our research. Even in
19 chemical industries in Japan, they use patents in the
20 way that they get used in electronics in this country,
21 because there tend to be fewer claims, their claims
22 tend to be much more narrowly interpreted as compared
23 to U.S. patents.

24 MR. WILLIAM COHEN: Before you go on to your
25 second thought, just on this one, are there some

1 industries where the point you're making may have more
2 relevance than in others? I'm thinking particularly of
3 situations we have heard in semiconductors where there
4 could just be tens and tens of thousands of patents.

5 DR. WESLEY COHEN: Right, right.

6 MR. WILLIAM COHEN: Is changing the breadth
7 there going to --

8 DR. WESLEY COHEN: No, I don't think you have,
9 if you will, a tilting effect, but you can have it --
10 it may have implications in industries like biotech, I
11 mean, to the degree that -- and pharma, to the degree
12 that you're moving toward a regime where there are more
13 patentable elements associated with any final product,
14 that sort of industry can be pushed to starting to
15 resemble a little bit this complex product sort of
16 industry. So, yes, it has I think more bite in some
17 settings than others.

18 The second thing regarding breadth is obviously
19 on an issue that Professor Kitch has written
20 extensively about, which is the question of cumulative
21 technology industries, that is, where technology tends
22 to build on prior technology in a fundamental way. And
23 then the question is there, as well, when you talk
24 about patent breadth, consider the breadth of
25 particularly pioneering patents in those domains and

1 the implications of narrower or wider breadth for
2 follow-on inventions and competitive conditions.

3 Now, that might open up a whole new domain, but
4 there, you can really get into some difficult issues.
5 We just completed -- we think we completed -- a draft
6 of a paper for the National Academy's STEP Board titled
7 "The Patenting and Licensing of Research Tools in
8 Biomedical Innovation," and there we tried to consider
9 the questions of, well, do we have what's known as an
10 anti-commons problem, and then we also considered the
11 question of do we have a problem of access to upstream
12 invention restricting subsequent development in
13 biomedical invention, and that's where the issue of
14 breadth comes in.

15 And, in fact, while we find no horrendous
16 problems emerging in that area, we see some significant
17 potential for problems and I think that's illustrated
18 perhaps by Geron's patents in the area of embryonic
19 stem cell research, where Geron wants to sort of keep
20 these patents, restrict them to its own use for
21 specific cell types. In a negotiation with NIH and so
22 on, they kind of restricted the number of domains, but

1 these things broadly, if past behavior is any
2 indication though, there is a prospect there that the
3 science may bypass them in some sense. But again, if
4 that science wasn't running around, we might have a
5 problem there. So, thank you.

6 MR. WILLIAM COHEN: Ron Myrick?

7 MR. MYRICK: Just a few thoughts.

8 First, just to clarify the record, I didn't
9 intend to say that there was, in fact, a patent on the
10 vacuum tube that stopped things. It would have done
11 so, but the point that's being made here -- we have got
12 several little issues here.

13 First, the issue you posited was undue breadth.
14 Well, undue breadth equals invalidity, so the issue is
15 what's due breadth, okay? And I think that's a
16 complicated question. It may be an industry-specific
17 thing, and I think we'll talk about that more probably
18 in the afternoon. But, I would give you another
19 theoretical comment, and that is that the most valuable
20 patent is the narrowest patent that's actually
21 infringed. And why is that? Because if you have a
22 really truly broad patent that is questionable, you are
23 going to be very loath to put that on the block and
24 subject it to all the vagaries of adversarial
25 proceedings. If you have a narrow patent that's

1 actually infringed, you have no fear of that, because
 2 you're going to be able to go out there and say, by
 3 golly, I'm after you, and I've got a patent here that's
 4 got 35 limitations. You go find the prior art that's
 5 going to go invalidate that thing.

6 So, people who really, really have an intention
 7 to use their patents appropriately, I think, cast their
 8 claims at an appropriate level where they're useful,
 9 not at a level where they've got this undue breadth
 10 virtually equating to invalidity, because then they
 11 will never be able to put that patent to a test.
 12 Again, this is the real practical world that I'm
 13 dealing with, or trying at least to deal with.

14 You raised also the issue of undue narrowness.
 15 Now, that's really a problem, and we're certainly
 16 finding lots of narrow patents coming out of the
 17 interpretations of the Federal Circuit and the recent
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1 term of art without really agreement among anybody as
2 to what it means. But, I can say this to you, if it
3 just means there's lots of patents out there, okay,
4 fine, there are lots of patents, but there have been
5 lots of patents for a long time and lots of art areas
6 where, for example, IBM makes \$1.7 billion net in a
7 field that has lots of patents, and they have got a
8 strategy that allows them to make all that money off
9 those licenses to those patents. It may be a complex
10 technology, but be that as it may, they live in the
11 world of the greatest patent thicket, if there be such,
12 and they do a very good job of it.

13 But, I would say this, here's another issue, if
14 you want to tackle something of interest, tackle this
15 one, tackle the fact that the Patent Office often
16 requires restriction requirements that proliferate the
17 number of patents when, in fact, one true inventive
18 concept is involved. And yet, because of the way the
19 Patent Office is funded, and that is off of fees for
20 patent applications filed and fees for patents issued
21 and maintained, there is every incentive for the PTO to
22 divide patents into a thousand pieces and get those
23 thousand pieces issued, because they all take a filing
24 fee and they all take a maintenance fee or several
25 maintenance fees.

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1 So, I think the thicket issue is far, far more
2 complicated than just glibly using a term that seems to
3 imply there are just too bloody many patents. There's
4 a lot that goes into that issue of how it is we end up
5 with so many patents.

6 Thank you.

7 MR. WILLIAM COHEN: We heard a little bit about
8 IBM, and I'm just wondering, we have someone in the
9 industry here with Bob Barr. Do you have any comments
10 on what you were hearing there?

11 MR. BARR: Well, I'd ask whether that's a good
12 thing for anyone but IBM, that they generate all that
13 licensing revenue, and I won't answer that, I'll just
14 ask it.

15 I do think that there is a problem with the
16 thicket and the number of patents, because it's one of
17 the reasons that an innovator has a major problem
18 trying to figure out what patents he requires licenses
19 on, and I'll just put it that way, what patent licenses
20 are required for him to go forward or what things he
21 can't do -- I'll try not to use infringement but to
22 understand the landscape, the more that's out there,
23 the bigger the problem. That's one of the problems I
24 also referred to earlier, the secrecy of pending
25 applications, and in addition to the quantity and the

1 difficulty of understanding what claims will issue.
2 But what it comes down to for me, since I'm concerned
3 with innovators understanding the cost of innovating
4 and the risks, is not so much patent breadth and
5 breadth of claims, because within one patent you can
6 have broad and narrow claims, but predictability. It's
7 the one area -- I don't feel this way about
8 obviousness -- but it's one area where I think we have
9 to recognize that these are treated like property
10 rights, and the boundaries should be just as clear as
11 the metes and bounds around your house.

12 MR. WILLIAM COHEN: Bob Stoner.

13 MR. STONER: Yes, I'd just like to make a
14 comment about a concern about broad patents. And, it
15 seems to me that the debate regarding the
16 justifiability of very broad patents on upstream
17 pioneer innovations it seems to me to be as much as
18 anything about the nature of the innovation process
19 itself, about the stage at which the costs and the
20 risks of innovation are likely to be the greatest and
21 where appropriability can make the greatest
22 contribution to innovation. It seems that there are at
23 least a couple of ways to characterize the innovation
24 process, and the description regarding broad patents is
25 different in each of these settings.

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1 On the one hand, there's a situation where the
2 initial innovative act is expensive and time-consuming
3 and unlikely to occur on its own, and the follow-on

1 In this type of situation, it would seem that
2 broad patents for the initial innovator are less
3 necessary for the initial invention and may be likely
4 to block follow-on innovation. So, what's necessary in
5 this situation is for broader patents for the follow-on
6 innovator to offset some of the downstream risks and
7 costs.

8 So, in conclusion, then, I guess to the extent
9 that each of these paradigms of the innovation process
10 is representative of particular industries, it seems
11 that we have to determine patent breadth with some
12 flexibility and cognizance of these differences, even
13 if we don't actually apply different standards to these
14 industries.

15 MR. WILLIAM COHEN: Let me throw into the mix
16 of the discussion the enablement doctrine and some of
17 the aspects of that, particularly undue experimentation
18 and predictability of the art, which I know we've been
19 talking about. I think we heard from Rob Merges a
20 similar idea, sort of making the point that, to the
21 degree the art is unpredictable, follow-on innovation
22 is likely to be more costly, and you would want a
23 greater piece of the pie to go to the follow-on
24 innovator, and that perhaps the enablement doctrine,
25 based on the art, might be generally getting us in the

1 right direction.

2 Does anyone have thoughts that go to this, as
3 well as the other issues that have been put on the
4 table? Let's start with Jim Pooley.

5 MR. POOLEY: I don't have a response to that
6 one yet, maybe if I think about it a little more, but I
7 did want to make just a couple of comments, one
8 following on Ron's.

9 I certainly agree that those who secure a broad
10 patent may be nervous about putting it into enforcement
11 for fear of its being attacked, and it's conceivable
12 that that could introduce some discipline into the
13 process of claiming. But, I also have to observe that,
14 at least in what I've been seeing recently, many, many
15 people, especially those that are motivated to acquire
16 or develop patents for the purpose of asserting them,
17 and some of them because they're licensing companies of
18 the kind that Bob described that go out and acquire
19 patents, will actually work them over if they're still
20 in the Office and in trying to expand as many claims as
21 possible on the theory that they will be saved in the
22 end either by dependent claims, and they will have many
23 of those, or simply by the presumption -- the
24 presumption of validity and the in terrorem effect of
25 simply having the patent and asserting it and getting

1 some sort of a settlement.

2 Then I just wanted to comment on what Professor
3 Stoner said, and perhaps I'm not understanding it
4 thoroughly, but it strikes me as something that ought
5 to concern us if we're looking at trying to identify
6 the breadth of an enforceable invention by putting into
7 the calculus how much investment was made in creating
8 it. That sounds like a potentially mischievous
9 direction to be going in, that the breadth of the
10 invention certainly should be considered in the context
11 of the particular industry and the particular art, but
12 fortuitous discoveries of a broadly applicable
13 pioneering invention ought to, it seems to me, have the
14 same level of protection as ones that take someone a
15 long time to put together.

16 MR. WILLIAM COHEN: Jay?

17 MR. THOMAS: Thank you. I also have just some
18 brief comments on some of the things I've heard
19 previously.

20 First, I don't think it's that appropriate to
21 speak to broad or narrow patents for the reasons that
22 were just identified. In fact, patentees don't have to
23 select between broad and narrow patents. They can have
24 very broad claims, medium-sized claims and many narrow
25 claims within one patent. And so, in fact, they don't

1 have to make such a choice. All the claims can be
2 asserted at the same time with the enablement doctrine
3 potentially with different applicability. So, it is
4 not as if you're ever forced to say, well, I've got to
5 go in with a broad claim or I worry about this broad
6 claim.

7 In fact, you can seek a re-issue application
8 and get many narrow claims. Many sound firms will
9 maintain continuation applications at the Office and
10 simply get narrow claims on the fly as they need to
11 present a tight seal against accused infringement. So,
12 in fact, we're not ever putting patentees to a hard
13 choice between narrow and broad patents. They can have
14 as many narrow or broad claims as they wish. So, to
15 me, that's not a very realistic distinction.

16 Also, the Festo case certainly is bringing
17 narrow claim interpretations, and I think the Federal
18 Circuit is very animated by the fact that it wants to
19 achieve commercial certainty so that competitors can
20 read claims and know how they can design around. But,
21 I think what's forgotten in this mix is, again, that
22 inventors, firms, can obtain many patents, many narrow
23 patents, instead of just one broad one. So, in fact,
24 the goal I'm not sure is entirely being achieved.

25 It's true that certainly for the body of

1 existing patents, there will be some unsettled
2 expectations, but prospectively, firms will simply
3 obtain many claims instead of one, seeking tighter
4 claiming, and take more advantage of continuation
5 practice. The difficulty to this approach, although it
6 makes patents easier to read individually, you know,
7 prospectively, it puts a great burden on innovative
8 industry and on patent administration, because firms
9 have to prepare and the patent administration has to
10 process many more claims, many more patents, than they
11 had to before. So, those create a lot of difficulties.

12 I think one thing I'd be interested in learning
13 from the Commission, or one contribution you might
14 make, is to identify to the patent courts and the
15 patent bar what hooks exist in the patent law that we
16 can implement competition policy through. The
17 copyright law seems to have fair use, notions, it's got
18 a merger doctrine, much more concern, for example,
19 about interoperability. There are existing notions
20 within the copyright world that can take advantage of
21 economic learning and decide what is the most efficient
22 market. But, in patent law, I think because it's
23 regarded on many more formal distinctions, and I think
24 the current structure of patent common law making
25 doesn't promote innovation in patent law. It tends to

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1 sequester these notions. I think enablement, written
2 description, reverse doctrine of equivalents, these
3 present potential statutory hooks that have so far been
4 unexplored that could be used.

5 I think a great starting point for this
6 discussion is actually Professor Duffy's and Professor
7 Merges' case book. If you've read the wonderful
8 materials they've put together, especially the example
9 of the fuzz ball, which I guess I'll leave for another
10 to explain, but it suggests, again, to what extent
11 should we allow these broad claims that are minimally
12 enabled, to capture later innovation. And I admire Mr.
13 Stoner's earlier comments, I think these are the
14 statutory hooks through which we can implement some of
15 these policies. The question is, how do we sort of get
16 from the policy into the formalities of the patent law?

17 Thank you.

18 MR. WILLIAM COHEN: I see Ron Myrick's sign up,
19 but before we get to him, if you want to talk about the
20 fuzz ball, I'd be fascinated in hearing about it.

21 MR. THOMAS: I didn't mean to set you off. I
22 must say, I used a competing case book, but I did use
23 that example, so I hope you'll forgive me for lifting
24 that, but I thought it was terrific.

25 MR. DUFFY: You, of course, use your own case

1 book, which is a fine case book, but if you want a
2 complimentary copy of my case book, if you want to
3 consider switching, I'd be thrilled.

4 The theory of the -- this is just the basic
5 concept of when enablement is tested. Enablement is
6 tested as of the time of invention. At that time, the
7 art can be not well developed so that you could say, I
8 can claim, I've invented a fuzz ball, and this is a new
9 thing, and I've made one fuzz ball, which is made of
10 material A, and that's the only material we know of
11 that can make these things. So, I can at that time
12 claim all fuzz balls, because, of course, I have
13 enabled everything that we know of as a fuzz ball.

14 Then later in time, somebody invents another
15 material which can be used to make this product, and at
16 that time, it will be considered infringing, because
17 the infringement inquiry goes to an analysis of the
18 claims and the product at the time the product is
19 produced, and it also can be considered to have been
20 enabled, even though it wouldn't have allowed you to
21 build the exact product at the time it was filed. I
22 think the fuzz ball is sort of -- it's in the case
23 book -- a fanciful example.

24 A real world example would be the Wright
25 Brothers patent, which actually was subject, as many of

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1 you know, was subject to -- became a very famous case
2 of blocking patents, because the Wright Brothers patent
3 was actually not on the airplane, it was on a
4 stabilization system for stabilizing the aircraft.
5 Prior art aircraft tended to crash into the ground
6 almost immediately. So, what you needed was a
7 stabilization system, and that was their real
8 contribution to the art. And, it's the stabilization
9 system that's still used on all -- as far as I know --
10 all aircraft, certainly all commercial aircraft, maybe
11 there are some military aircraft I don't know about.
12 But it's basically the idea of stabilizing, using --
13 they actually said disbanding or distorting of a
14 portion of the wing on their aircraft, and they
15 described how you do that in order to achieve
16 stability, a very useful technique that was improved by
17 Glenn Curtis' invention of the aero log, the flap, the
18 wing flap. And, basically after that invention, any
19 commercially viable aircraft needed both the Wright
20 Brothers technology -- needed to actually use the type
21 of stabilization that they talked about -- and needed
22 wing flaps in order to make commercially viable
23 aircraft.

24 The Wrights were actually considered to
25 encompass Curtis' technology, though Curtis separately

1 had a patent. So, you might say, well, how did the
2 Wright Brothers enable these later versions of
3 aircraft, because they didn't have wing flaps? The
4 answer is that they enabled every type of aircraft that
5 was then known, which was very primitive aircrafts.
6 Then, of course, when you look at the infringement, you
7 look at their claims, which were drafted quite broadly.
8 And actually it didn't say warping wing, it just said
9 orienting a portion of the wing in a slightly different
10 direction from the other part of the wing, which the
11 courts held that encompassed the concept of a flap as
12 well as the actual technique that they used, which was
13 actually to bend their wing, to warp their wing.

14 So, it created a very significant problem of
15 blocking patents, because both Curtis had a patent and

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1 I think actually patent breadth is often talked
2 about in terms of enablement. I think it's important
3 to realize that there's also the non-obviousness as a
4 major component of patent breadth. And, if you have a
5 weak non-obviousness doctrine, that means that even if
6 you have a sort of significant invention, you run the
7 risk of having other inventors come up with numerous,
8 small improvement patents to your basic technology.

9 If one were to say, in the extreme, the
10 non-obviousness doctrine is weaker or nearly
11 nonexistent, then these improvement patents have two
12 major effects. One, they divide the royalties between
13 the first inventor and the later inventors. So, to
14 some extent the non-obviousness doctrine is implicated
15 here. And, if you think a sort of weak non-obviousness
16 doctrine which creates more patents is inventor
17 friendly, you have to realize that that's not entirely
18 true because the first inventor, who perhaps did the
19 hard work, who discovered what would be called the hard
20 principle in the 19th Century, is going to have to
21 split royalties with the improvers who are coming on
22 and filing improvement patents.

23 The other effect, which is often overlooked, is
24 that the improvement patent also, even if they are
25 obvious improvements and we are willing to grant

1 patents for relatively trivial patents, it will extend
2 out the flow of royalties that will go to that
3 technology. So that if I patent the laser today, and
4 then there are 15 improvement patents filed over the
5 next ten years, my royalties might actually extend 30
6 years into the future, rather than just 20 years into
7 the future.

8 So, that's an important effect to remember
9 about patent breadth. It's not just about shifting
10 around the allocation of royalties, it's also about
11 extending out the royalties into the future.

12 MR. WILLIAM COHEN: Ron, you took your thing
13 down?

14 MR. MYRICK: No, having been recognized, I saw
15 no reason to keep it up.

16 Just a couple of points, and I really want to
17 hear what Gerry has to say about the Wright Brothers --
18 you've got to tell us about --

19 MR. MOSSINGHOFF: I wasn't there.

20 MR. MYRICK: But the discussion that's been had
21 so far has I think now begun to focus on what due
22 breadth is, ignoring undue breadth. Due breadth is, I
23 think, tightly pinned up with this or connected with
24 this enablement issue. But, I am going to ask one
25 other question perhaps to put on the table, and maybe

1 it's for this afternoon's later discussion, I don't
2 know, and that is, would the concerns that are
3 expressed about upstream patents versus downstream
4 patents and so forth be addressed at all or improved at
5 all if there were developed a law of experimental use
6 as an exception to infringement? Is that going to be
7 discussed today?

8 MR. WILLIAM COHEN: That will be a major topic
9 of the last session, the research and --

10 MR. MYRICK: Well, yeah, that's the session --

11 MR. WILLIAM COHEN: Yeah, the last topic for
12 this session.

13 MR. MYRICK: Because it seems to me, that
14 addresses most of the concerns I've heard about the
15 upstream versus downstream as far as stopping
16 innovation is concerned.

17 Now, commercialization of innovation is
18 something else. I'll stop there.

19 MR. WILLIAM COHEN: Gerry?

20 MR. MOSSINGHOFF: Just a couple comments.

21 I totally agree with what Ron said earlier
22 about the due and undue breadth. If somebody says
23 that -- I think the statement used here, unjustifiably
24 broad patents, I know what an unjustifiably broad
25 patent is. It's one that, one, shouldn't have been

1 granted, and two, will be held invalid when somebody is
2 trying to enforce it.

3 In addition to the enablement, there are three
4 things that kind of bear in upon what you get. There's
5 a rhyming maxim that Judge Rich used to use, and that
6 is, "The claim is the name of the game," and that

1 show a mechanical engineer a gear box or a turbine
2 engine, and he or she will tell you whether it works or
3 not, whereas in the chemical or unpredictable area, one
4 alloy may work to do something and the second alloy may
5 totally fail. So we disclose one, and you can't claim
6 broader than the one you disclose unless your written
7 description requirement is established.

8 So, I think that's an important distinction or
9 an important thing bearing in on breadth of claims.
10 Enablement, prior art, obviousness used with the prior
11 art and written description, all bear upon that. If it
12 survives those areas, it's not an undue -- it may be an
13 industry-dominating patent, like the transistor patent
14 or the microchip patent. It may dominate industry.
15 The answer is great, we now have a really neat new
16 invention and a really neat new industry that's going
17 to eventually form out of this.

18 Finally, a footnote on the Wright Brothers, the
19 associated --

20 MR. DUFFY: I knew you would have something
21 about that.

22 MR. MOSSINGHOFF: Well, since we're in a
23 semi-antitrust environment here, the patent pool that
24 John mentions of the Manufacturers Aircraft
25 Association, if you fast forward about 60 years, it was

1 held to be an antitrust violation and broken up at the
2 request of the Department of Justice Antitrust
3 Division.

4 MR. DUFFY: The Government just changed its
5 mind.

6 MR. MOSSINGHOFF: Different Government.

7 MR. DUFFY: Different government, that's true.

8 MR. WILLIAM COHEN: Now, let's open things up
9 to cover both enablement and written description, and I
10 thought one way to approach these issues would be much
11 along the lines of what Gerry was just talking about,
12 recognition of the fact that although we have the same
13 standards across the board, in application, they may
14 turn out a bit differently, depending upon the
15 predictability of the art, the interpretation of
16 PHOSITA in a particular context.

17 I guess perhaps, again, the place to start
18 would be to ask what you see as the competitive
19 consequences of the choices that are made in
20 interpreting these issues from industry to industry.
21 For example, in biotech, we hear that you often have to
22 give quite complete descriptions. In computer
23 software, we sometimes hear that you don't need to
24 reveal underlying code.

25 Also within an industry, at different stages,

1 you could ask the same kind of question. We heard at
2 one point in the hearings the thought that as you move
3 downstream from basic research to end products, the
4 process becomes more predictable, and therefore, what's
5 required to enable can vary between the basic-research
6 and the end-product settings.

7 Would anyone care to delve into the contrasts
8 that can be laid out? Professor Cohen?

9 DR. WESLEY COHEN: Just to return to the theme
10 that I had mentioned a moment ago, that in our own
11 research, again, our work that we've done, we've seen
12 that patents are used in different ways across
13 different settings. And, something that certainly
14 conditions that is essentially what we might think of
15 as the number of patents per commercializable product.
16 And Jay Thomas I think brings up a very good point
17 there and, indeed, as does Ron, that to some extent
18 that number is endogenous with respect to the patenting
19 strategy of the firms involved, but that endogeneity
20 notwithstanding, I think we can draw broad
21 distinctions.

22 Then I think that the issue really becomes one
23 for agencies like the FTC in the sense of, well, if
24 we're concerned about competitive implications, perhaps
25 these different ways that patents get used, different

1 systematic patterns across industries might provide
2 some guidance to you folks, right, in what you might
3 look for, okay, in terms of particularly competitive
4 implications, and I think that's really the key. I
5 don't see it so much that then patent law should be
6 tailored to different industries and different
7 settings.

8 I think there's not been great experience with
9 kind of sui generis treatments in the world of IP,
10 though we have observed attempts. So, you know, it
11 should provide you some guidance about what to look for
12 if it is broad and so on, in the courts or in
13 interpreting enablement, written description issues
14 more or less broadly in a particular domain, like
15 biotech, for example, versus software, then what might
16 be the logic to that about the competitive implications
17 and therefore the kinds of behaviors that you might
18 want to attend to.

1 we were going to discuss written description,
2 enablement and best mode, and one of the things I would
3 like to put on the table is whether best mode is

1 those.

2 Ron?

3 MR. MYRICK: I do want to return to that issue
4 about how much description is in software, but we will
5 come back to that later.

6 On best mode, best mode is perhaps truly unique
7 to the United States, but I really have a concern about
8 changing it, and here's why. We have seen recently an
9 attack on the constitutionality of the extension of
10 patent -- copyright term in the Eldred and an attack,
11 in fact, upon the ability of the Congress to pass a law
12 which seemed to be within clearly its purview. Whether
13 or not that will -- we will be guided by what the
14 Supreme Court ultimately decides in Eldred, but having
15 seen that and having heard in the past few months
16 efforts to remove best mode from our statute, I have a
17 concern that, as easily as one could mount an argument
18 that 70 years is not a limited term and 50 years is,
19 one could easily mount also an argument that it is
20 implicit in the constitutional bases for the patent law
21 that the inventor disclose the best way he knows to
22 practice the invention in order to justify the award
23 he's going to receive of exclusivity.

24 In fact, best mode was not added to the statute
25 until 30-40 years ago, I've forgotten exactly when, but

1 having put it in the statute, the concern I have is
2 that we take it back out of the statute, and now we
3 work for ten years before a case comes to the Supreme
4 Court without having a best mode statute, without
5 having best mode in our situation, and now the Supreme
6 Court hears that attack, a la Eldred, and says, ah,
7 yes, au contraire, it's improvident that you did not
8 disclose the best mode you knew of practicing the
9 invention. You have not kept faith with the public in
10 getting your exclusivity. All patents that don't
11 satisfy best mode are invalid. And we will have a
12 whole half generation of patents that will be thrown
13 into a cocked hat with all matter of additional
14 litigation. So, while many of the bar associations are
15 considering an effort to remove best mode, I think we
16 have to do it with great caution that, in fact, we may
17 create more uncertainty than we already have about best
18 mode. Now, that's my basic position on best mode.

19 As far as operationally, best mode does not
20 present any problem.

21 MR. WILLIAM COHEN: Wes, are you up for best
22 mode or --

23 DR. WESLEY COHEN: No, no, no.

24 MR. WILLIAM COHEN: Anybody else on the best
25 mode area?

1 Yes?

2 MR. BANNER: I do come to best mode from the
3 litigation perspective, and I do agree that it can
4 introduce a great deal of additional cost to both sides
5 in the an

1 thoughts on best mode. Are you happy with the
2 discussion where it is or do you want to add anything?

3 MR. POOLEY: I don't think there's anything
4 particularly useful to add. Among the people that we
5 have talked to about it, clearly best mode, although it
6 interjects issues of state of mind into the process
7 which always increases unpredictability and to a
8 certain extent expense, because we're focusing on what
9 it was that the inventor had in mind, as what he
10 thought was the best or she thought was the best mode
11 at the time, yes, as Mark has observed, most
12 practitioners see this as a lesser problem than, for
13 example, willfulness, which was raised earlier, which
14 is almost universally, you know -- not universally
15 condemned, but certainly there is a universal concern.

16 MR. WILLIAM COHEN: Let's use that as our segue
17 back to enablement and description, the thought being
18 here to talk a little bit about the value of the
19 disclosure. This is something we had started into a
20 bit this morning, and from there we can move into the
21 roles of the willfulness doctrine in affecting the
22 value of the disclosures.

23 Would anybody like to start us off on
24 disclosures? Wes?

25 DR. WESLEY COHEN: If I can just speak briefly,

1 add a little bit more detail to our research that I
2 reported on previously, why, for example, do
3 disclosures seem to have more of an effect in Japan
4 than in the United States, okay? I think when you
5 think about disclosures and their impact, you need to
6 put disclosures in the context of a broader incentive
7 structure, that what is the incentive of other firms to
8 really examine in detail the patents of firms, of their
9 rivals and so on? We heard a bit about this, that

1 had an 18-month rule before we did, and so that even
2 got them issued sooner.

3 But in any event, my main point is that it's
4 not simply a matter of what's in the patent, but what
5 are the incentives on the part of other firms and
6 engineers and so on to really look at it carefully.

1 a lathe you would have to disclose the exact tolerances
2 that it would be machined by, or with a pharmaceutical
3 you would have to disclose the pharmaceuticals involved.
4 That's never required, not required in other arts, as
5 long as you enable one skilled in the art to make and
6 use the invention. I think that's exactly the same
7 test that should be applied in a software invention.

8 MR. WILLIAM COHEN: Ron.

9 MR. MYRICK: Thank you.

10 On the issue of willfulness, I've already
11 stated my position earlier today. I think it's a
12 terrible deterrent to the use of the patent system to
13 its full extent. I honestly cannot see what purpose it
14 serves. One could analogize it to the deterrent to
15 violation effect that is achieved by the treble damages
16 in the antitrust laws, but that's a different kind of
17 situation.

18 In this situation, patent laws or the patent
19 system is intended to serve another purpose, and that
20 is education, disclosure, advancement of the arts and
21 so forth. And, it is perverse to make it less
22 desirable that people read what it is the public's
23 paying for. So, it is beyond me how it is that ever
24 got into the system, and it is beyond me still why it's
25 still there, but that leads to a couple of other

1 thoughts.

2 Assuming you're willing to take the risk of
3 knowing something about what the patents are of your
4 opponent or of your competitors, there is a definite
5 incentive to acquire that knowledge and to use it.
6 Again, I re-emphasize the fact that if you have large
7 running product lines and you prefer ignorance, you
8 risk terrible embarrassment, damage to the trademark,
9 damage of all manner of issues. So, it is far, far
10 better, if you're willing to take the risk on this
11 willfulness thing, to avoid that by staying abreast of
12 what's going on in the patent field and avoiding those
13 patents and inventing around and so forth. You
14 actually can learn that's beneficial.

15 But that leads to another issue that's
16 presently alive in the patent reform strategic plan,
17 and that is deferral. It is antithetical to a system
18 which is intended to disseminate information rapidly
19 and then also to disseminate the innovation that comes
20 from that rapidly, to have a system that also defers
21 prosecution, defers examination and so forth. So, one
22 of the reasons that the Bar has been so adamant in
23 opposing deferral -- not universally, by the way, I'm

1 the system in determining what it is that will actually
2 be patented, what those claims will actually say in the
3 future, and therefore, what it is you actually have to
4 avoid.

5 So, I would emphasize, then, that these things
6 are all tied together. Getting rid of willfulness is
7 goodness because it helps to disseminate the
8 information. Having the Office make its decisions
9 rapidly is goodness. Publishing all applications is
10 goodness, and so forth, to make the system really
11 function as it's supposed to and provide the incentives
12 that you're looking for.

13 Thank you.

14 MS. DeSANTI: Yeah, I just want to ask if
15 there's anybody at the table today who would like to
16 defend the willfulness requirement. We find so few
17 areas of consensus.

18 MR. BANNER: I won't defend it, but I have seen
19 numerous instances where despite a finding of
20 willfulness, a district court judge -- willfulness by a
21 judge, the district court judge -- despite a finding of
22 willfulness by a jury, the district court judge did the
23 right thing and did not enhance damages, and the only
24 practical impact of willfulness is the in terrorem
25 effect of the fear of treble damages, which is a

1 reasonable fear, especially when you're representing a
2 defendant.

3 But I have not seen it have as bad an impact as
4 it could have, but by the same token, I agree with Ron
5 to the extent I'm not sure it has as significant a
6 positive effect as perhaps treble damages has in the
7 antitrust laws. So if that's a defense, that's the
8 best I can offer.

9 MS. DeSANTI: Jim?

10 MR. POOLEY: I think it's true what Mark says,
11 that there aren't that many judges that actually take a
12 finding of willful infringement and then enhance
13 damages, so that the fear is a fear in the abstract.
14 Nevertheless, it's a fear that animates decisions
15 earlier in the process, including transactional
16 decisions before litigation, and it also animates
17 decisions, as Ron has pointed out already, in some
18 industries not to look at some patents at all, as we've
19 discussed.

20 There is also the cost in the litigation itself
21 of all these collateral issues relating to having to
22 obtain opinions, and the cottage industry that's grown
23 up around that, and the rules created by the courts,
24 creating presumptions that if one doesn't get an
25 opinion, there's a good reason why, and there's a

1 negative reason there, and all of the issues around the
2 attorney-client privilege scope and so forth. In
3 short, it's a very, very high cost in the actual
4 processing of litigation.

5 So, in the end, I think the justification for
6 it is to put a cost on infringing, so that it's not
7 just, well, I may as well infringe, because if they
8 don't catch me, then I'm Scot-free, and you can go
9 through that calculation. But, given what Bob has
10 observed, which is correct, about the average cost of
11 litigation, you know, one would only go knowingly into
12 infringement having made a pretty hard calculation to
13 begin with.

14 MR. BANNER: Can I follow up on that?

15 MS. DeSANTI: Yeah, Mark and then John.

16 MR. BANNER: I agree entirely. I think most
17 judges, the smartest judges who deal with enhancing
18 damages don't deny enhanced damages, they just give you
19 10 percent. Then they know they won't get reversed. I
20 think a major difficulty with willfulness

1 generally to the disqualification which was -- there's
2 all kinds of things, and I'm not sure they are costs
3 that are justified by this benefit of deterring
4 infringement.

5 I think there's an awful lot of good deterrents
6 for infringement to begin with, one of which is the
7 fact that the low end may be reasonable royalties, but
8 there's always the possibility of injunction, and the
9 high end is a damages theory that is limited only by
10 the creativity and sincerity of very highly skilled
11 economists.

12 MR. WILLIAM COHEN: Let me ask is there some
13 way to vary the threshold which could trigger the
14 treble damage exposure, to preserve incentives to avoid
15 infringement. For example, rather than triggering it
16 merely from having notice about a patent, by trying to
17 find out what's out there in the field, what if the
18 requirement would be that you were given notice by the
19 patentee? Are there other thresholds that could be
20 used with better results?

21 MR. POOLEY: If I could respond to that, I
22 think there are other thresholds that could be used
23 like that, for example, but not with substantially
24 better results, because most of the cost would still
25 remain. Most of the consequences that we've been

1 a class of punitive damages -- is to decide whether or
2 not it was likely that this person was likely to get
3 away with their infringement, with there being perhaps
4 two issues there. One, whether they could hide the
5 infringement in some fashion, which I think is
6 important. The other is, of course, whether they could
7 in some fashion strong-arm the other party.

8 There's a small inventor who has a patent and a
9 company says, well, you can sue us, but we are going to
10 drain you of all your capital before you can actually
11 complete the litigation. Then if you think that's a
12 realistic story, then that might be another situation
13 where you think that treble damages or willful damages
14 are appropriate when, in fact, actually people are
15 successful in bringing the guilty party to heel.

16 So, that literature that exists for general
17 punitive damages should be considered, and I think in
18 many instances it's not applicable to the patent
19 context. In many instances where there's patent
20 infringement, it's going to be adjudicated. The
21 parties are actually going to litigate it, and
22 therefore, the number of cases where the infringement
23 won't be caught, won't be remedied if it, in fact, is
24 infringement, are relatively small.

25 The other variable is, of course, the integrity

1 of the patents at issue before the Patent Office.
2 There is a legal presumption of validity, and academics
3 have talked about whether or not that makes sense.
4 Actually, Jay Thomas has talked about that. Obviously,
5 to the extent you throw willfulness on there, you're
6 demanding more from your Patent Office. You're
7 demanding that the patents that issue from it not only
8 are going to get this legal presumption of validity,
9 but that you really do have to avoid every patent.

10 You really do have to worry about avoiding
11 patents because they're supposed to be fairly rigorous

1 willfulness paragraph -- and there's a real dilemma on
2 the part of the alleged infringer where a host of
3 patents are called to the infringer's attention, and
4 they have a patent attorney who looks at it, and they
5 say, well, this obviously doesn't have an A, B and C,
6 and that's required in all the claims, sets it aside.
7 That may be precisely the one that causes the problem.
8 He did not get an opinion on it.

9 I mean, so it really is -- there's a dilemma on
10 the part of potential infringers that I think ought to
11 be avoided. I fully support the abolition of
12 willfulness, even though several of my cases will go
13 away.

14 MR. WILLIAM COHEN: Okay, I see three signs up.
15 Let's try to get them, and at that point, we are
16 probably going to move into continuations and finish
17 this portion of the day. Let's try Steve Merrill.

18 MR. MERRILL: I'm going to change the subject.

19 MR. WILLIAM COHEN: Well, let's finish up this
20 one. Tell us what your subject's going to be, and we
21 will see where it fits.

22 MR. MERRILL: I was going to get back to the
23 question, Wes' question of whether there's something
24 problematic about the content of patents and
25 disclosures as distinct from incentives to consult with

1 one another.

2 MR. WILLIAM COHEN: Okay, let's take you up
3 last in this section.

4 MS. DeSANTI: I'd just like to ask Bob Barr to
5 speak to the issue, and also, Bob, I'd be interested in
6 the extent -- you had talked earlier about the patent
7 thicket problem. Could you talk about willfulness as
8 it relates to that patent thicket problem and the

1 of willfulness, because that really makes it impossible
2 in my mind to do, because everything -- you know,
3 you're at the risk for each one, you have to get an
4 opinion and so on.

5 So, I think it does help that. But then that
6 gives me the opportunity to return to that just for a
7 moment, the idea that infringement can be avoided,
8 because I -- and maybe this is something for people to
9 teach me offline, but I don't see what can be done
10 about the following problems in addition to the --
11 well, now I am going to look at every issued patent and
12 spend all the money, but I don't have to worry about
13 willfulness. That's fine.

14 Then I've got the issues of uncertain scope of
15 issued patents, which I brought up and which was just
16 raised in the context of willfulness, where you go
17 through all the patents -- and I have had this
18 experience, as have others -- you go through a stack of
19 patents, say, well, these are not a problem, these are

1 some people find a good way to make a living. So, the
2 point is that you still have claim uncertainty, and I'm
3 not sure of all the ways to fix it, but we have
4 discussed some of them today.

5 Then you have the unpublished patents, and to
6 the extent you have the published patents, you have an
7 even bigger problem of claim scope uncertainty to deal
8 with.

9 Lastly, at the risk of repeating something I
10 said earlier, at least in my business, I think it is
11 very difficult even to -- you know the date a patent
12 issues, and you look at it, and you go, oh, that's a
13 problem, you're looking at a design-around effort or,
14 excuse me, an effort to change things and to avoid that
15 patent or to invalidate it, which if doable -- or let's
16 say it's not doable. Let's say you decide it's valid
17 and you have to change your product. When we start
18 changing our routers to avoid that patent, don't send
19 any e-mails for a while, because it's not going to get
20 there until we fix the problem.

21 So, please don't underestimate the problem of
22 redesigning the product, and some of the literature in
23 this area spells it out better than I can, that you are
24 kind of trapped, and that's when you're held up.

25 Lastly, one word that hasn't been mentioned

1 today -- and I'm not going to go home without it,
2 because it's right here -- standards. There are some
3 patents you can't avoid.

4 Thank you.

5 MR. WILLIAM COHEN: Ron.

6 MR. MYRICK: Thank you.

7 As it respects standards, I think that's
8 exactly correct, but most internet providers require
9 them to be licensed under reasonable terms, so
10 hopefully that solves most of the problems, and we
11 won't go into that further.

12 Now, with regard to the transaction costs, I
13 think those are the ones we're talking about here.
14 Implicit in having a willfulness standard, is all the
15 transaction costs that get you to trial. You're
16 sitting there in your office and you get a letter, and
17 now you have got to do something about it, and whether
18 that case ever sees the light of day, you still have
19 got the cost of dealing with that letter or of a patent
20 you're filing on your own or whatever.

21 As far as incentives are concerned, injunctive
22 relief is enough. That's enough to incent me to do
23 whatever is necessary just to prevent that exact same
24 situation that Gerry talked about -- pardon me, that
25 Bob talked about.

1 disclosure, and the principal example that was thrown
2 out in the advanced material was in software, and Gerry
3 just dismissed that as the lack of underlying code.
4 So, I am wondering if there is a problem, and if there
5 is, whether it is more pronounced in software than
6 other areas.

7 MR. WILLIAM COHEN: Well, we have heard views
8 from a number of panelists throughout the sessions on
9 that. Is anybody here who particularly wants to take
10 that on? Otherwise, we will just have to go with our
11 record in its entirety.

12 Okay, Ron Myrick.

13 MR. MYRICK: I'll just treat it for a second.

14 When we all started down this path of patenting
15 software, and we were going through mental steps and
16 all these other things back 20 or 25 years ago, we did
17 have to file code at that time, at least there were
18 many of us who thought we did. I was at Bell
19 Laboratories at that point, and we were filing code.
20 We were doing everything under the sun to make sure
21 that we had sufficient disclosures and so forth. We
22 didn't know what they were.

23 I think with the maturity of the industry and
24 with the maturity of the profession, we evolved away
25 from that to a point where it's probably true today

1 that most programmers can take flow charts and
2 implement the flow chart if the flow chart reaches the
3 point of novelty. And, I think the issue is, do you
4 have any steps in that flow chart which are themselves
5 requiring experimentation to implement. Most flow
6 charts I see don't, they are relatively good. But, I
7 think that the mere fact that some flow charts might
8 have steps in there that are too gross and actually
9 require some development and experimentation and so
10 forth to produce a particular implementation, that
11 doesn't mean you have to do it for all. That doesn't
12 mean you have to change the standard for all patent
13 applications in that area.

14 What that means is that particular patent
15 application is defective, and the law on that is pretty
16 clear. You have got to teach, and if you didn't teach,
17 bingo, you didn't make it. Nothing stands for the
18 principle you have to disclose the code. Frankly
19 spoken, disclosing the code may be the best way to
20 obscure the invention. I mean, frankly, if you're
21 looking at 500,000 lines of code, who in the world
22 wants to do with the patent applications on software,

1 materially addressed by systemic change. Applying the
2 law as it stands to patent applications as they arrive
3 and are or are not sufficient of and by themselves,
4 should be sufficient for the handling of the problem.

5 MR. WILLIAM COHEN: Let's let Bob Barr respond
6 on that.

7 MR. BARR: I'll just be very quick on that.

8 I disagree on the need for disclosure, but I do
9 want to raise in passing the issue of means-plus-
10 function claims in trying to understand the scope of
11 the means-plus-function claim when you're only looking
12 at a flow chart. I don't think the courts have figured
13 that out yet -- maybe I'm a few weeks behind. I don't
14 know that code would help, but in theory, it would.

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1 concern? What are the patent applicant's legitimate
2 needs to broaden claims after the application was
3 filed? And what would be the likely consequences of
4 imposing time limits or other restrictions on
5 broadening claims through continuations?

6 I see a few signs up here. Why don't we start
7 with Gerry and work our way down.

8 MR. MOSSINGHOFF: I'll just say that one thing
9 I think people here could agree with is that there
10 ought to be some data and there are no good data now on
11 continuations. There's a lot of speculation. There
12 was an article -- we had a presentation from a former
13 general counsel of Kodak that said something like 80
14 percent of the cases were continuations. That's not
15 true. I think the article is actually published in
16 the -- was it the AIPLA Quarterly Journal? No -- oh,
17 the Federal Circuit Bar Journal. I think those numbers
18 are not valid, but I don't have any numbers to say
19 there are. No one kept data.

20 Now there should be data. With the 20-year
21 time of filing, there ought to be very definite data at
22 the PTO on how many continuations there are, because
23 they expire based on the expiration date of the patent,
24 and they ought to be able to break it down both with
25 continuations in part and continuations. So, I think

1 one of the things I would urge is that the PTO put this
2 data out in some reasonable form, which I don't believe
3 they do now on continuations.

4 Secondly, there has grown up in several cases
5 I've been personally involved in, an issue of laches,
6 and that is going to -- it's all over the place now.
7 People are now talking about prosecution laches,
8 rejuvenated obviously by the Lemelson case, and so that
9 is going to be a break until we start getting some
10 closure on what that law is, that's going to be a break
11 on these continuing applications, because there could
12 be laches on when you thought your claim ends. Five
13 years seems to be kind of the magic number that defense
14 attorneys are using.

15 Then finally, several people have said, what do
16 we do post-Festo? Whichever way Festo comes out, it's
17 not going to be all that significant, post-Festo, what
18 do we do. And, I think a lot of prosecuting attorneys
19 say what we do post-Festo is keep a continuation
20 pending until we see exactly what our competitor comes
21 up with, and then we'll nail him or her with literal
22 infringement, and we won't have to worry about doctrine
23 of equivalents. So, Festo, if it did anything, it
24 certainly increased the desire to keep a continuation
25 pending until you find out what your competitor is

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1 actually doing, and you don't have to worry about
2 doctrine of equivalents.

3 So, those are just kind of random thoughts. At
4 this point, I would put myself down as a hard-line
5 neutral on the issue of continuations.

6 MR. WILLIAM COHEN: Bob Stoner?

7 MR. STONER: Yeah, I just observed that the
8 issues that come to the fore in analyzing continuation,
9 i.e., was there a strategic attempt to tailor claims to
10 what has developed in the market and use this to
11 submarine later developments, but that inquiry is very
12 much the same as the inquiry that the antitrust
13 agencies have used in looking at analyzing Dell-type
14 issues, that is, whether firms have strategically
15 misled standards-setting bodies into adopting a
16 standard that infringes one of their claims and whether
17 this has had an anti-competitive effect.

18 In fact, it would seem possible to use
19 continuations to spring a new patent claim on firms
20 that are producing products pursuant to a standard
21 where no disclosure to the standards-setting body was
22 necessary at the time that the standard was adopted.
23 And thus, it seems to me that continuations could
24 conceivably undercut the antitrust agency's ability to
25 deal with behavior, such as that alleged in Dell. And,

1 if this is true, then there may be some need for
2 coordination between the antitrust agencies and the
3 patent authorities in dealing with strategic
4 manipulation of continuation.

5 MR. WILLIAM COHEN: Bob Barr.

6 MR. BARR: Let me start with the legitimate use
7 of continuations. One legitimate use that comes to
8 mind that we use, and of course, we say the best patent
9 is a pending patent, and, you know, sometimes you've
10 missed your own product, or your attorneys have in
11 their haste to put limitations in, that the Patent
12 Office will allow the patent for. So, sometimes I'll
13 use a continuation once I know a little bit more about
14 our product, can actually put in different limitations
15 and get that done.

16 But that said, it should be clear from my
17 previous comments, and all day, that one of my great
18 concerns is being out there with a product while
19 somebody else has a pending patent that I don't know is
20 about to cover my product, v, so v, stesiculties that
21 that causes for our attempts to innovate. So,
22 certainly the continuation practice, vs it exists,
23 increases the likelihood that someone will do that.

24 Maybe it comes down to what you think of
25 Lemelson. You know, my alma mater made him a hero for

1 a certain sum of money. I can't afford it, so I --
2 but, you know, maybe it does, and I'll take this
3 opportunity to get my last word maybe.

4 Gaming the system is wrong, and I don't see
5 anything in creating patents that you will license for
6 revenue to people who unsuspectingly infringe your
7 patent. I don't see anything there that promotes
8 innovation or that does anything good except for the
9 people who get the revenue. And, I think that the
10 extent of gaming the system is a lot more than anyone
11 wants to talk about. I think that patents have an
12 extremely useful role to play in our business and
13 everybody else's, to protect our R&D, but there has to
14 be a better balance between that and what I really
15 would call gaming the system.

16 Thank you.

17 MR. WILLIAM COHEN: I'm going to do something a
18 little bit strange. I see that we have three signs up
19 right now. I am going to write your names down, and
20 we're going to return to this at the end of the
21 session. Hold in your minds anything you want to say.
22 We'll see if you still want to go into it.

23 We need to shift over to the research issues
24 just to get an opportunity for a couple people who
25 would otherwise have to leave and I know may wish to

1 talk about this. So, we will return to continuations
2 at the very end. We'll continue it at the very end.

3 The last topic we want to take a little bit of
4 input on is research and research tool issues. I would
5 divide it normally into two sections. First, to talk
6 about the research tools. I understand Professor Cohen
7 may have things that may flow from one to the other, so
8 I am not going to limit the discussion at this point,
9 but the thought is that some panelists have expressed
10 concern about the effect of the patent system on basic
11 research and the applicability of patents to research
12 tools used for additional research rather than for
13 final commercial applications. I know you've done some
14 work on research tools. You've also dealt with the
15 difficult problem of defining them. And we'd like to
16 hear what your research has led you to.

1 itself in the area of biomedicine.

2 A couple of concerns have been raised in the
3 literature, at least we distinguish between two
4 concerns. One concern falls under the rubric of what's
5 called the anti-commons, where there's a concern of a
6 proliferation of fragmentation of property rights

1 That comes to the second concern which has been
2 raised, which -- sometimes these things are lumped
3 together, but I choose to distinguish them -- which is
4 the issue of -- particularly salient in the context of
5 cumulative development, a field which develops
6 cumulatively as is the case with biomedicine, where
7 it's not a matter of having a lot of property rights.
8 It could be just one patent that can block
9 subsequent -- and it might not just be improvement, it
10 might be subsequent basic research that requires access
11 to some offspring IP.

12 There again, the same working solution has been
13 used, which is -- and this isn't the only one, there
14 are other work-arounds and so on, but often, again,
15 particularly academics get around this by infringing.
16 And by the way, I want to -- though I realize that I've
17 skipped over a critical point that you asked: How do
18 we define research tools? And what are some examples
19 of research tools? Let me roll back a moment and
20 address that.

21 Essentially it is a pretty amorphous notion.
22 And, we defined it appropriately as any tangible or
23 informational input into the process of discovering a
24 drug or any other medical therapy or method of
25 diagnosing disease. Okay, that's pretty broad, but the

1 notion of research tool is quite broad. What are
2 examples? Examples could include targets, like target
3 receptors that might be implicated in disease. It
4 could be PCR, an example of another one, microarrays,
5 Crelox and the Onco-Mouse technology that was
6 developed. These are all instances of research tools.

7 Now, returning to the point of where we think
8 it may be a problem, I return to the issue of Geron and
9 their patent position on embryonic stem cell research.
10 You can break up research tools into several
11 categories. You can think of some which are nonrival
12 in use, okay, like the Onco-Mouse technology or
13 combinatorial libraries and largely PCR, and those
14 which are rival in use, and by that we mean, is this a
15 patent which has fairly clear market implications, and
16 will one party's use of that IP diminish another
17 party's use with respect to the profitability and
18 market impact of the use of that IP.

19 We don't see a big problem with access, even to
20 upstream foundational IP when it's nonrival, because
21 it's in the interests of the patent holder to have this
22 sort of technology used as widely and broadly as
23 possible, to provide licensing terms that promote that
24 and, though we find some departures even from that
25 practice, though typically not -- it's when you have

1 the rival-in-use problem, the foundational discovery,
2 upstream discovery, that may well be rival in use. And
3 that's the example, again, of Geron.

4 I don't think the problem is enormous thus far,
5 but I think the potential for any problem is indeed
6 there. Also, I should mention, on a question that was
7 identified in the list of questions that were
8 distributed to us. We may have an emergent problem
9 here with the -- we were talking about it over lunch --
10 with the recent Federal Circuit decision which, in a
11 very public way, has now narrowed what was already an
12 extraordinarily narrow statutory research exemption.
13 And, the fact that this may now become very, very
14 public, the work-around solution that I talked about,
15 which is informal, if you will, but nonetheless
16 infringement, may not be as viable, particularly on the
17 part of universities.

18 There may be a chilling effect now in
19 university settings, and I think that that potential is
20 there, and that's a concern. It's hard to know which
21 way that will go.

22 And then finally, I just want to add, because I
23 want to just keep it brief, a lot of these discussions,
24 say, for example, the proposal of the anti-commons a
25 few years ago and discussions of the implications of

1 broad pioneering patents and so on, often they take the
 2 form of conjectures, and then conjectures sometimes,
 3 and often, substantiated by particular stories and
 4 anecdotes, by history, if you will, historical
 5 anecdotes. In many of these cases, we have to get
 6 beyond raising these conjectures. Some of these
 7 conjectures actually can be fairly alarming, okay, and
 8 justifiably so.

9 What I'm doing here is putting a plug in for my
 10 business, which is research. And the suggestion that
 11 in light of conjectures and concerns that get raised in
 12 these settings, there is a clear need to go beyond
 13 that, to go even beyond the salient exemplar of a
 14 conjecture, and to try to develop some broad systematic
 15 basis for evaluating the importance of those
 16 possibilities in practice. And for that, perhaps the
 17 FTC can serve a useful purpose in encouraging research,
 18 empirical study, in fairly systematic ways at the
 19 interface between a particular intellectual property
 20 and competition policy.

21 For that, it would be useful to have certain
 22 research infrastructure ^{and for Maryland} regarding the
 23 collection of just basic data and information on R&D ^{For the Record, Inc.} 1.75 T
 15 can then build a ^{And focus more precisely on, you know, T}

1 the question of conjecture of the moment.

2 MR. WILLIAM COHEN: Meg? Before you begin, two
3 questions that I want to try to get at is, any help you
4 can give us as to what are research tools? How you
5 separate them from other products, what are their
6 distinguishing characteristics? And secondly, after
7 you've helped us define them, do they raise special

1 materials subject to copyright, such as software, are
2 also research tools in many contexts. So, I think the
3 point is it's really hard to draw a bright line on
4 where a research tool is.

5 Now, the reason that I went to the NIH
6 guidelines is because this discussion involving policy,
7 including the different branches of the Government and
8 different agencies, I think is particularly relevant to
9 research tools, because we have a government agency,
10 the NIH, that has looked at the patenting of this type
11 of technology very seriously, and I think very
12 carefully, and has guidelines for recipients of NIH
13 money, and that's a lot of money in basic research in
14 the biotech area. I ought to know the right number of
15 billions of dollars, but I don't right off the top of
16 my head.

17 But at any rate, this was something that was
18 thought through by our Government and Bayh-Dole the
19 Bayh-Dole Act. And there is a policy issue and a
20 policy implementation, I think, that could in many
21 instances foster our creativity on innovation, because
22 according to the NIH guidelines, those institutions who
23 receive money and get patents on what is called a
24 unique research tool, is guided to make that available
25 on a commercial basis -- on a nonexclusive commercial

1 basis.

2 This is a pretty big carrot and stick. And one
3 of the things that -- and these guidelines went into
4 effect in 2000, so it takes a little while to keep
5 things rolling. But, in my practice, we review a lot
6 of research tool patents, and more and more are being
7 issued. And I couldn't guess the number, but I'm going
8 to guess thdn'6ttclajol5 TTTTB m going

1 research tools that are very important for
2 pharmaceuticals.

3 Now, why are biotech patents different? Well,
4 they're different because they involve drug
5 development, and that saves lives or improves quality
6 of life. It's not making a better cell phone, which is
7 important, or a better computer, which is important,
8 but it's life. It's life, and these issues tend to
9 have, justifiably, more emotion around them, and I
10 think that that's one of the reasons, when I was
11 looking at -- you know, we've got very broad
12 discussions here, and then we get down to research
13 tools, and that is a very small part of a growing
14 biotech industry.

15 I think what has happened, as Professor Cohen
16 may be alluding to, is that in the economic bubble or
17 boom, there might have been unrealistic expectations of
18 compensations for the discovery of certain of these
19 research tools, even some of these research tools that
20 were funded by NIH money. And, I think the economists
21 around the table should be able to help me with the
22 norms, that once you have an unreasonable economic
23 idea, you sometimes adjust your thinking. What I'm
24 hoping to see is that more of these research tools are
25 going to be made available, because that's the way

1 they're going to make money. I mean, they are not
2 going to get any money asking for a large price and not
3 getting a nickel. That doesn't get you anywhere.

4 Now, one of the areas that we are dealing with
5 right now is there are private industries who have
6 discovered a particular gene and they have, I'm sure,
7 expended significant resources discovering this
8 specific gene that is important for a specific disease.
9 And they have gotten a patent on it, and they are going
10 to use it, and they are not going to license it. That
11 is the way the patent system has been going pretty much
12 for many years. And patents do expire, and at some
13 point in time, all of these genes are going to be
14 available in the public domain. We're at the infancy
15 to adolescent stage of the biotech business, and these
16 things will be rolling into the public domain.

17 Now, one thing I would like to mention on
18 disclosure vis-a-vis biotech patents, the Federal
19 Circuit is looking at written description and

1 of non-patent literature in the biotech area, but the
2 patent literature in the biotech area is very
3 significant, it is looked at every day.

4 I have spoken enough, Bill, on biotech.

5 Thanks.

6 MR. WILLIAM COHEN: Okay. Anybody else on
7 research tools? Yes, John.

8 MR. DUFFY: I agree exactly with what Wes Cohen
9 said, that we do need more empirical work in this area.
10 And, one thing that you might look at, is look at the
11 law of other countries, in particular, because some of
12 them have recognized a much broader research exemption.
13 That might help you define exactly what should be, or
14 what at least other nations have defined as a research
15 exemption.

16 The other thing to look at is to actually
17 figure out whether the U.S. law is a drag on research.
18 You might want to see if there's any flow of research
19 overseas, in other words, companies or firms relocating
20 their research wings to countries where they do have a
21 research exemption.

22 DR. WESLEY COHEN: We had found some movement
23 overseas.

24 MR. DUFFY: It is very significant to see that,
25 because then that does say -- that's something that you

1 can point to and suggest that there is a difference in
2 law here, and it does mean that research is being
3 affected, the difference in the law is affecting it.

4 Now of course, that doesn't actually tell you
5 whether it's a good thing to have the research
6 exemption, because what you might actually think is
7 that, of course firms are going to go overseas if they
8 want to do this research, but the arguments in favor of
9 not having a research exemption -- which perhaps
10 Professor Kitch would defend, I'm not totally sure
11 about that -- but if you believe that you should not
12 have a research exemption, the theory would be that the
13 basic invention would not be invented unless you're
14 guaranteed exclusivity and you can coordinate future
15 research downstream.

16 So, but at least looking at flows of research
17 overseas, you should see if there is an effect, and
18 then the next question is, what lesson should we draw
19 from that?

20 MR. WILLIAM COHEN: Can we broaden a bit to
21 research in general -- I think we do want to talk about
22 research exemptions or experimental use defenses and
23 particularly any comments people want to make on the
24 *Madey v. Duke University* case, a number of signs up
25 here. Wes is about to leave when we come to Duke

1 University, but that's understood --

2 DR. WESLEY COHEN: Well, I'm new to Duke
3 University, but it's a slippery -- research exemption
4 has come up at length at the Academy committee
5 meetings. It's a very slippery slope. The difficulty
6 is when you talk about a research exemption, which is
7 already on the books exceedingly narrow, and the Madey
8 v. Duke has just made it all the more narrow by
9 essentially taking off the table, in essence, anything
10 that's done in a university, because it is part of the
11 business of a university, unless you do it on your own
12 in your attic, you know, or as Jim was saying, for
13 amusement or idle curiosity or something of that sort.

14 But getting back to the point, the research
15 exemption, even as it stood kind of a little less
16 narrowly conceived, turned on the question of
17 commercial intent, at least that was the prior
18 understanding, and even that's a terribly slippery
19 concept. We actually looked at the exemption of other
20 countries, and one of the committee members put a list
21 together briefly that, statutory characterization for
22 the basis of such exemptions overseas, they didn't
23 really provide -- yes, there's more latitude, but it
24 didn't really make the problem go away.

25 The Madey v. Duke, I think the story's not

1 over. I think my understanding is that Duke is not
2 going to stop here, but what they do subsequently -- I
3 think it's one of my assignments to actually call up a
4 couple of people and find out what they're going to be
5 doing -- but it is not transparent. And, I think the
6 effect of the case, if it stands, is not really to make
7 the statute more narrow. I don't think that that's
8 going to be the key effect, okay?

9 I think the key effect will be making the
10 statute more visible, and so that folks who are de
11 facto infringing, who thought they weren't before, were
12 in saying, oh, I qualify under the research exemption,
13 now, because of the light that's shining on this we'll
14 know that they are, in fact, infringing. And more to
15 the point, the university administrations will know, or

1 So, that's the concern that I have right now,
2 will there be this sort of chilling effect,
3 particularly in the Academy and particularly where this
4 has been most salient as an issue, which is the area of
5 biomedical research? And there it's an empirical
6 question. So, you know, the possibilities are there,
7 but I'm not sure how it's going to turn out. Certainly
8 it's an issue of immediate concern.

9 MR. WILLIAM COHEN: Let's hear from Professor
10 Kitch.

11 DR. KITCH: Well, I'm sure everyone knows about
12 this, but Becky Eisenberg had a piece in the University
13 of Chicago Law Review in 1989 discussing the research
14 exemption, and it was quite a good piece, and I was
15 quite sympathetic to it. And she was sympathetic to
16 the problem of researchers. It's the same Eisenberg
17 who wrote the Eisenberg and Heller piece.

18 But she brought out a basic dilemma which I
19 think occurs to everyone who thinks carefully about the
20 problem. And that was, well, a lot of equipment and
21 devices that are used by researchers are provided by
22 commercial firms who develop them because of the
23 incentives in the marketplace. A lot of the fancy
24 machines to be found in laboratories are available
25 because they're produced on a mass basis by a single

1 manufacturer who has produced them, and it would be
2 impossible for the researchers to create, independently
3 and separately in their labs, all of that equipment and
4 machinery.

5 So, she pointed out that if you had a research
6 exemption that said when you use a patented device in
7 research, that it was not infringing, that there would
8 be no incentive left for firms to generate equipment
9 for these markets. And so she concluded in that
10 article that whatever the scope of a possible research
11 exemption, it couldn't just simply apply across the
12 board to use by researchers, any device or whatever.

13 Now, that brings me to the Madey case, and I
14 would just like to offer another reading of the Madey
15 case which is -- I think has a kind of different tilt
16 to it than that offered by Professor Cohen.

17 First of all, of course, it's an extremely odd
18 case. It involves a custom-built machine by a member
19 of the faculty on the premises of Duke University.
20 Now, if you moved it to kind of a different context,
21 and if Professor Madey had had an instrument, a
22 company, building the machines for sale to Duke and the
23 machine had been built by the company with the patent
24 rights that Madey had, and Duke had purchased the
25 machine for use in the laboratory, then one would

1 presume that they would have acquired, along with the
2 machine, an either express or implied license to make
3 use of the machine in the laboratory. Certainly if
4 they paid money for the machine but didn't get the
5 intellectual property rights to enable them to use it,
6 somebody made a mistake.

7 Well, in this context, I assume that nobody
8 ever bothered to negotiate the terms and conditions
9 under which Madey was building the machine. And, the
10 issue of what rights he might have implicitly
11 transferred has not yet been litigated in this case.

12 The University seems to be very unwisely trying
13 to go in and sort of get an easy, early win by
14 asserting a research exemption position, which was
15 basically, well, if it happens at a university, what we
16 do is research, and that's very important, and
17 therefore, it doesn't infringe. For the reasons that
18 Eisenberg it seems to me spells out quite clearly, that
19 kind of very broad position it seems to me is simply a
20 nonstarter. And I'm sure that very much put the Court
21 in a frame of mind to dismiss the defense out of hand.

22 I think it's very unfortunate that Duke took
23 that position, and those of us who have studied
24 litigation know that you can get really very damaging
25 results by taking unwise and thoughtless positions.

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1 I don't get any leverage out of the courts
2 saying that the defense is narrow. I'm always
3 frustrated when the judges tell me that something is
4 narrow or broad. I always want to say narrow or broad
5 in relation to what? And since we really don't know
6 what the dimensions of this defense are in the first
7 place, the fact that it's narrow, in relation to what I
8 don't know.

9 Finally, I think you should realize the facts
10 of the Madey case are basically the same ones that
11 bothered Eisenberg, that is, a patent on a machine to
12 be used for a certain kind of research procedure and
13 the very kind of patent on which she concluded that the
14 research exemption should not apply.

15 So, I'm left completely uncertain as to how the
16 Federal Circuit would deal with the question if it were
17 faced with a more appealing and more targeted assertion
18 of a research defense. And so I don't get a strong
19 sort of set of conclusions from the case of a future
20 likely direction of the Federal Circuit.

21 MR. WILLIAM COHEN: Taking you up specifically
22 on your reference to a more targeted assertion, I would
23 like to go back to the definition which we raised
24 earlier on. What if instead of talking about a machine
25 used in research, we were talking about something like

1 a target in biotech, which could be patented, something
2 which would never be sold in commerce directly, but is
3 useful for further research. Does that change the
4 analysis?

5 DR. KITCH: Well, the only thinking that I
6 personally have to offer, and I'm glad to know that
7 Steve and his group are working on this definition of
8 the problem, which I think is a real hard problem, is
9 it does seem to me clear -- it seems to me clear, it
10 may not be clear to anyone else -- that everyone ought
11 to be able to do work related to the subject matter of
12 the claims, insofar as they're proceeding to understand
13 how the patented subject matter works, to understand
14 the science or technology behind the subject matter and
15 to sort of get the full disclosure from the patent, and
16 in the process, verify whether or not the patent is
17 valid, because if they attempt to follow the teaching
18 of the patent and can't make it work, you've learned
19 something very important about the patent.

20 Now, exactly how far beyond that a research
21 exemption could go and how it could be defined, I
22 really don't have the answer.

23 MR. WILLIAM COHEN: Gerry?

24 MR. MOSSINGHOFF: I'm sorry Wesley had to
25 leave. I was going to congratulate him on the amount

1 MR. WILLIAM COHEN: Meg?

2 MS. BOULWARE: I did want to mention one other
3 area of the law that's developing in the research tool
4 usage for pharmaceutical development, and that is an
5 exemption under 271(e), which allows an act not to be
6 an infringement if it's done solely -- I'm trying to
7 read the statute -- for uses reasonably related to the
8 development and submission of information under the
9 federal law which regulates the manufacture, use, sale
10 of drugs or veterinary biological products. This is a
11 Roche v. Bolar amendment. And, there is at least one
12 case currently going through the courts, Hausey v.
13 Abbott, it's in the District of Delaware, and I believe
14 there was a dismissal filed by -- Bristol Myers is one
15 of the companies that's involved in it -- under Rule 12
16 saying that there's no infringement. That case is
17 going to be working its way through, and there is some
18 school of thought that if you are using one of these
19 research tools, and your ultimate goal is to have a
20 drug that you would submit to the FDA, that that would
21 be an exception to infringement. And that case is
22 making its way.

23 MR. WILLIAM COHEN: All right. John?

24 MR. DUFFY: I think there are three different
25 kinds of research exemptions -- okay, two. I'm wrong

1 about that, I suppose. Well, I think there's three,
2 but I may be incorrect.

3 The first is research to see how or if -- if or
4 how the technology works, which I think is the kind of
5 research that Professor Kitch was discussing, and I
6 agree with Professor Kitch, that one, it's hard to see
7 why the law should not allow that. Two, it's hard to
8 see why actually a patentee would not allow that. If
9 somebody comes to a patentee and says I want to test
10 your device because I'm thinking of licensing it or I
11 want to understand how it works, and the patentee says,
12 no, you can't do that, but I'd like to license you
13 anyway, one would have to question why the licensor
14 wants you to buy essentially a pig in a poke, why they
15 won't let you figure out whether, in fact, the
16 invention works as it's claimed. So, that I think
17 is -- it's hard to see why the law wouldn't allow that,
18 and I do believe the Duke University case doesn't go to
19 that issue.

20 That first issue is allowed overseas, but
21 again, it's hard to see why research would migrate
22 overseas just to merely see if the technology works,
23 because patentees should encourage people to confirm
24 their results.

25 The second I think is much more sticky, is the

1 research on the claimed technology to improve it, with
2 the goal being that you are going to claim new
3 intellectual property, which will create a blocking
4 patent situation. Now, I think that if you subscribe
5 to a prospect-type theory, you would hesitate to grant
6 such a research exemption. I'll take notice that Ed

1 means that perhaps the research exemption for improvers
2 would be consistent with the overall thrust of our
3 patent system. Certainly other legal systems seem to
4 allow that, and de facto, there is a research exemption
5 like that in U.S. law. It's called Europe. If you
6 don't like U.S. law, you simply put your research wing
7 overseas, and then you can file U.S. patents on the
8 improvements that you discover overseas.

9 MR. WILLIAM COHEN: Anybody -- oh, Steve.

10 MR. STONER: Can I just say one thing?

11 MR. WILLIAM COHEN: Yes.

12 MR. STONER: On research tools, in addition to
13 the problems associated with defining research tools,
14 which people have talked about, in determining how the
15 exemption would be applied, it seems to me there is the
16 additional problem that I think has been alluded to, of
17 trying to distinguish situations where it would indeed
18 be wise to give a broad research patent.

19 For example, the hearings previous to this have
20 pointed out that there are major costs and
21 uncertainties associated with downstream
22 commercialization that sometimes are as great or
23 greater than what are associated with getting the
24 initial upstream invention in the first place. And in
25 those cases, it seems to me that granting such a broad

1 upstream patent and having that upstream patent, in a
2 sense, manage the downstream flow of innovations could
3 easily lead to a situation where you got less
4 commercialization, less quick commercialization
5 downstream.

6 MR. WILLIAM COHEN: Meg.

7 MS. BOULWARE: I wish Professor Cohen was here.
8 I've got another study for him.

9 MR. DUFFY: Well, I'll take it.

10 MS. BOULWARE: Okay, very good. I've got a
11 taker.

12 One of the very -- well, it was a broad patent,
13 the PCR patent, which is the patent that was used to
14 replicate identical strands of DNA, which is used -- we
15 all know after the O.J. case -- and it's used in many,
16 many, many areas. That invention was made by a
17 scientist, Kary Mullis, at Cetus, and you did have Bob
18 Blackburn from Chiron here earlier, and they acquired
19 Cetus, and from a biotech standpoint, it was a very
20 broad patent developed by a private company, and at
21 least to my way of thinking, I would like to know --
22 you know, perhaps the same can be said of this
23 particular patent, it was really proliferated. And, I
24 think the owners of that technology found that putting
25 that technology out in the marketplace and having

1 others use it was economically beneficial to everyone,
2 and also beneficial from a technology standpoint to
3 everyone.

4 The other broad patent that people mention in
5 the biotech area is a kind of broader patent on gene
6 splicing, and Stanford made, I don't know how much
7 money on that, nonexclusively licensed it to virtually
8 everybody that would come and ask for a license. These
9 are two very basic biotech patents that have I think
10 contributed very favorably to the economy, to research,
11 to innovation, et cetera, and would be good test
12 targets to look at, if you will, or good test cases to
13 look at.

14 I have had my sign up, but Gerry made the
15 points from the biotechnology area and the
16 pharmaceutical area -- this country has got to be doing
17 something right, because we are the leaders so far, and
18 away from any other country. We are doing something
19 right here, but thanks.

20 MR. WILLIAM COHEN: Okay, unless I see further
21 signs on the research issue, we have a few minutes left
22 before our scheduled closing time. I did cut off a few
23 people who were interested in making a contribution on
24 the topic of continuation. Bob Stoner and Gerry and
25 Ron all had their signs up at that point. I'll give

1 each of you a chance to do that. And I'll also give

1 ignore divisional practice, because divisional practice
2 is equally distorted. Now, one can file an application
3 and have the Office force a whole raft of divisions and
4 proceed on them seriatim, and the laches defense won't
5 apply, because the claims would have all been sitting
6 there. And they can sit there for years. So, while
7 there is hope that the laches defense arising out of
8 Lemelson and the more recent case -- I can never
9 remember its name -- while the laches defense has some
10 hope of helping to fix the continuation problem, it
11 won't fix the divisional problem where people will
12 rapidly learn to game the system by filing cases that
13 are quite omnibus and knowing full well that the Patent
14 Office's propensity for restriction, excessive
15 restriction perhaps, depending upon your viewpoint, and
16 then allowing those cases to be proceeded over years
17 and years and years, with all the same disclosure base
18 so they can be adjusted along the way and so forth.

19 I would also add one more thing, that the
20 Office has an emerging issue as well, with regard to
21 something called "reasons for allowance". Now,
22 "reasons for allowance" -- we've been conducting a Six
23 Sigma quality study on "reasons for allowance". And
24 we'll be publishing the data on this, which says that
25 in not an insignificant number of cases, the reasons

1 for allowance that are being put in the record after
2 the closing of the record are erroneous, and it's not
3 quite clear why.

4 The problem is that the experience we've seen
5 in a number of cases, five of my firms have studied
6 this issue for us and are preparing an approach to
7 handle this. The reason is that, in some instances,
8 and this is not a general indictment, just in some
9 instances and in some art areas -- the reasons that are
10 stated in the final document, that is, the reasons for
11 allowance document, don't comport with what happened
12 during the prosecution and are not there necessarily
13 because there was an oral interview, which maybe would
14 be a reasonable reason for them to be there, but
15 rather, a reverting to arguments made by the examiner
16 before the case was allowed and which the applicant had
17 thought had been given up by the examiner to get
18 closure and to get the case through its allowance
19 phase.

20 The problem with it is that the law -- the
21 rules have been changed to reflect what the Federal
22 Circuit had determined to be the law, that if you don't
23 comment on these things, you get a negative inference,
24 and so you're forced to comment upon them. But, in
25 being forced to comment upon them, that does not fix

1 the problem, because the record has now been
2 permanently tainted with this poor "reasons for
3 allowance".

4 Now, why do I bring that up? It's because it
5 is another vehicle by which examiners who are too
6 strapped for time, find a way to close prosecution and
7 then hopefully they think they're doing a public
8 service perhaps by going back and retrieving what was
9 given up during their closing of the prosecution. And,
10 if that truly pans out to be the case, continuation may
11 be the only solution you have, although in this case,
12 I'm not sure a continuation solves it, because the
13 record has been tainted already.

14 So, there is no easy solution to continuation
15 practice, and if you ask what I would propose to solve
16 it, I don't honestly know, except maybe perhaps
17 developing some kind of intervening rights or some such
18 thing that would protect the later entrant in the
19 marketplace against these patents that show up so
20 tardily. And there I completely agree with Bob, this
21 is an exceedingly troublesome thing, because the
22 marketplace develops and then the applicant can
23 continue to develop his patent applications to capture
24 what was never in his mind, was never truly his,
25 shouldn't be -- there is perhaps some undue breadth.

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1 So, I think that that's a serious problem for
2 which we don't have an immediate solution, unless it be
3 something, for example, like an intervening rights
4 doctrine.

5 That's all I have to say, thank you.

6 MR. WILLIAM COHEN: Gerry, you had your sign up
7 previously on this. Do you want to say anything on
8 continuations or --

9 MR. MOSSINGHOFF: It was so important I forgot
10 it.

11 MR. WILLIAM COHEN: Okay, let's try Mark.

12 MR. BANNER: While sitting here, the question
13 kept coming back to my mind, and I put it on my notes,
14 it says Bob's Q-2, Bob Barr's second question that he
15 posed at the very beginning. The second question was,
16 am I infringing? And he said the answer is almost
17 always impossible to answer. And that, I think, is one
18 of the largest unjustifiable costs on the competition,
19 or drains on competition, posed by the current state of
20 the intellectual property law.

21 I believe, it is my view at least, that it is
22 impossible to answer, not so much because of the
23 breadth of patents or because of the number of patents
24 and the thicket of patents or even because of the
25 unknowability of these continuation patents, which I

1 rules on the question, that gives the opportunity to
2 form this drain on our system.

3 I don't have an answer to this problem. I
4 raise the question, and the question I raise is, has
5 Markman worked as intended, or has the law of
6 unintended consequences come into play? Are we better
7 off now than we were before Markman, and is it good?
8 Is it good for the country? Is it good for our
9 industry? Is it good for the consumer? Is it good for
10 the patent system? This is an area where I think there
11 needs to be significant academic, association and
12 agency study to see the impact on competition.

13 MR. WILLIAM COHEN: Jay?

14 MR. THOMAS: Given the lateness of the hour and
15 there's another commentator, I'll try to speak quite
16 quickly. I certainly observe the demand for empirical
17 work here at this table, at our roundtable. And, I
18 also note that this is a hot trend in patent law
19 scholarship right now. But, I would caution the FTC
20 not to be over-enchanted with empirical work and to
21 think that empirical work is a predicate for policy
22 judgment. My view of such posture is a prescription
23 for paralysis. Empirical work can present some small
24 pieces of the puzzle, but ultimately economists have
25 not told us so much that's incredibly useful about the

1 innovation experience.

2 I think there remains room in patent law, just
3 as there are in every other area of the law, for sound
4 judgment and reliance upon our experience. So,
5 certainly make use of economic studies, empirical work,
6 but I don't think you need to have to solely rely upon
7 them in coming to conclusions.

8 I would also note with regard to claim scope,
9 just back to that very briefly, Professor Duffy rightly
10 noted Section 103 is also part of this puzzle in
11 addition to enablement and written description. I
12 would also note statutory subject matter has been a
13 major determinant of claim scope. It is no coincidence
14 that the recent ambitions of the patent system for
15 software, business method and post-industrial
16 inventions takes the patent system out of the
17 traditional hardware and apparatus framework that has
18 traditionally been the ambit of this field, and it's
19 when you reach that point, you get to the patent claims
20 that are almost self-enabling, because, in fact, they
21 are very abstract, they deal with behavioral protocols.
22 There is no hardware. Description of the behavior is
23 enough. I think that goes back to Steve's point that
24 was raised but not much discussed. There's one reason
25 people don't look at it that much, it's because there's

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1 not that much worth learning from them in many fields.

2 Thank you.

3 MR. WILLIAM COHEN: Ron.

4 MR. MYRICK: I think Bob was up first.

5 MR. WILLIAM COHEN: Okay.

6 MR. BARR: Thanks, because I don't really have
7 something worthy of the last word, and I hope you do,
8 but because I just couldn't resist on the Markman
9 question.

10 Just for the record, I thought it would work.
11 I thought it would help expedite litigation, and I
12 thought it made sense, I thought it would help
13 encourage settlement. In my experience, it hasn't
14 worked. It's increased the cost of litigation
15 substantially and has not led to settlements. And even
16 stranger, and I'm not sure why because theoretically
17 this shouldn't have happened, but looking at claims in
18 the abstract, independent of the accused device, has in
19 my experience, in my reading of cases, has produced
20 some very strange results and results that would not
21 have been predicted. And in that, they take away the
22 idea of looking at what did the applicant invent, and
23 did this person use it. So, I think it's a problem.

24 MR. WILLIAM COHEN: Ron.

25 MR. MYRICK: Thank you.

1 realistic perspective of a technical content aspect to

1 comments, we certainly encourage that and would love to
2 see them.

3 Steve?

4 MR. MERRILL: Two quick questions. What do you
5 contemplate happening on November 6th, and what do you
6 contemplate is the product of this whole effort?

7 MS. DeSANTI: Let me take the first question
8 first. November 6th is going to be a discussion in the
9 morning of a problem that was actually raised out in
10 Berkeley in connection with standard settings. One of
11 the issues that was raised was whether firms would be
12 able to negotiate royalty fees ex ante to avoid the
13 potential for hold-up problems once the standard has
14 been set, without violating the antitrust laws or
15 whether there was a price fixing issue there. And so
16 that discussion will address that issue and try to
17 parse when and when not to set royalty fees ex ante.

18 In the afternoon, we'll be talking about
19 grant-backs, portfolio cross-licensing, nonassertion
20 clauses and reach-through royalties. Those are topics
21 where we've had some discussion before but not a lot,
22 and this is in the nature of sort of making a
23 comparison among those different approaches to clearing
24 the patent thicket, to try to understand possible
25 competitive effects among the different types of

1 approaches.

2 In terms of the ultimate product, the Chairman
3 of the FTC has said from the beginning there will be a
4 report. I am quite sure there will be a report. When
5 that report will issue, I'm less certain. You know, in
6 the best of all possible worlds, it would be nice to
7 have something in the spring, but I'm not issuing any
8 guarantee.

9 As you all know, there's been a wealth of
10 information put forward on this record. There's a
11 lot to assimilate, and we are working on that, but,
12 you know, especially as you get farther into these
13 records, you can often find yourself sort of
14 overwhelmed by the wealth of information that's there.
15 So, we're not making any guarantees, but there will be
16 a report.

17 MR. WILLIAM COHEN: Thank you once again.

18 (Whereupon, at 4:35 p.m., the hearing was
19 concluded.)

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

2 DOCKET/FILE NUMBER: P022101

3 CASE TITLE: IP WORKSHOP

4 DATE: OCTOBER 30, 2002

5

6 I HEREBY CERTIFY that the transcript contained
7 herein is a full and accurate transcript of the notes
8 taken by me at the hearing on the above cause before
9 the FEDERAL TRADE COMMISSION to the best of my
10 knowledge and belief.

11

12 DATED: 11/5/02

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16 KAREN L. GUY

17

18 C E R T I F I C A T I O N O F P R O O F R E A D E R

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20 I HEREBY CERTIFY that I proofread the
21 transcript for accuracy in spelling, hyphenation,
22 punctuation and format.

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