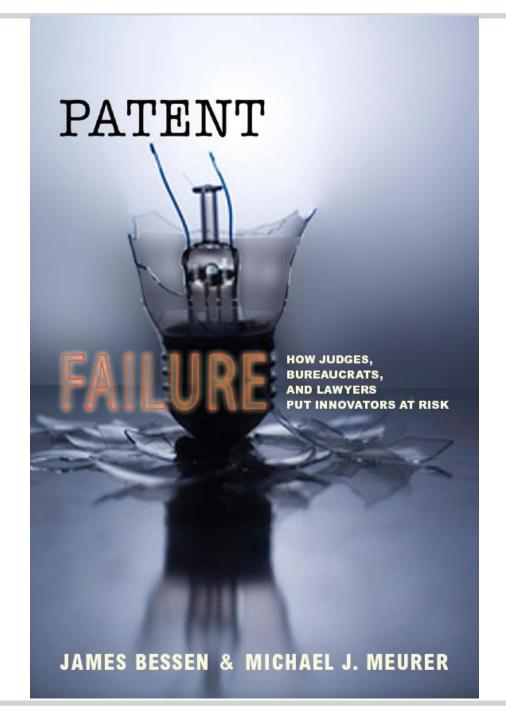
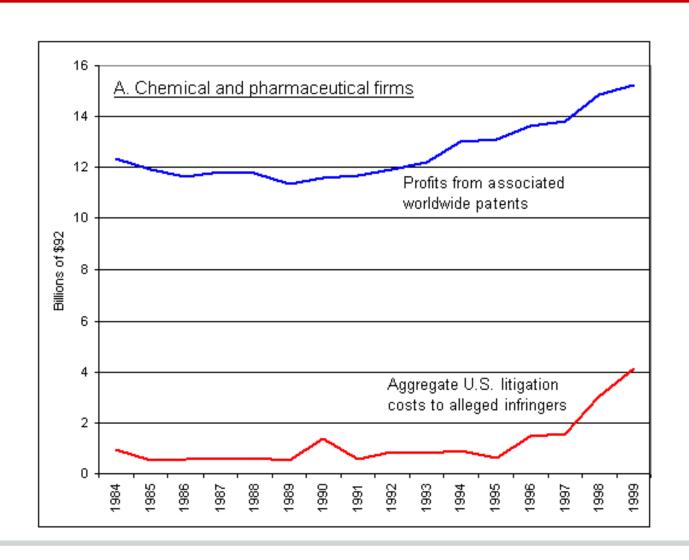
Patent Failure in the Digital World

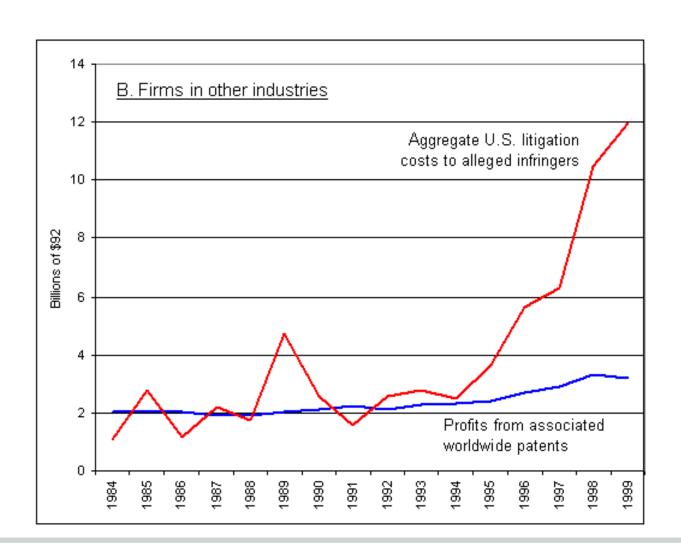
James Bessen
Boston Univ. School of Law



Patents in chem/pharma



Patent Failure



What went wrong?

"Fuzzy Boundaries" => Litigation

What went wrong?

"Fuzzy Boundaries"

- Too many patents
- Legal abuses
- Software, business method patents
 - high rates of litigation

Probability patent in lawsuit

Technology	Percent in lawsuit	
Chemical	1.1%	
Other	2.2%	
Software	4.6%	
Business method	13.7%	

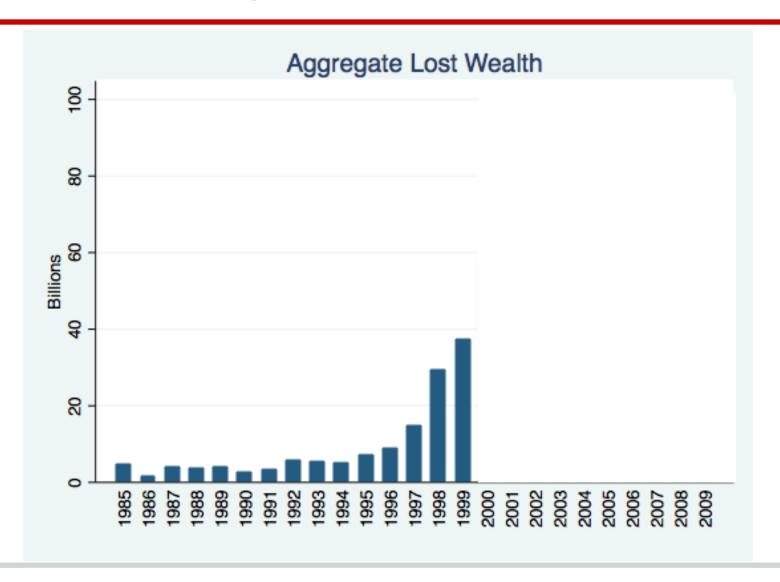
What went wrong?

"Fuzzy Boundaries"

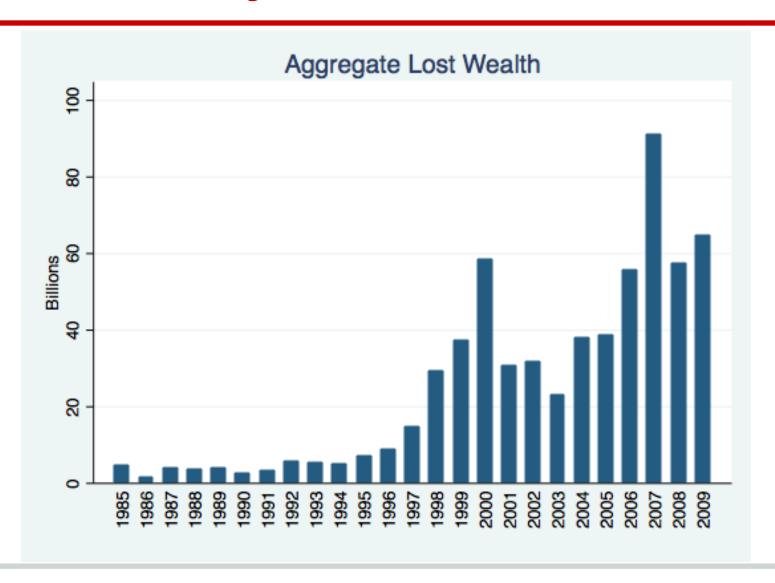
- Too many patents
- Legal abuses
- Software, business method patents
 - high rates of litigation

Warning: things can get worse

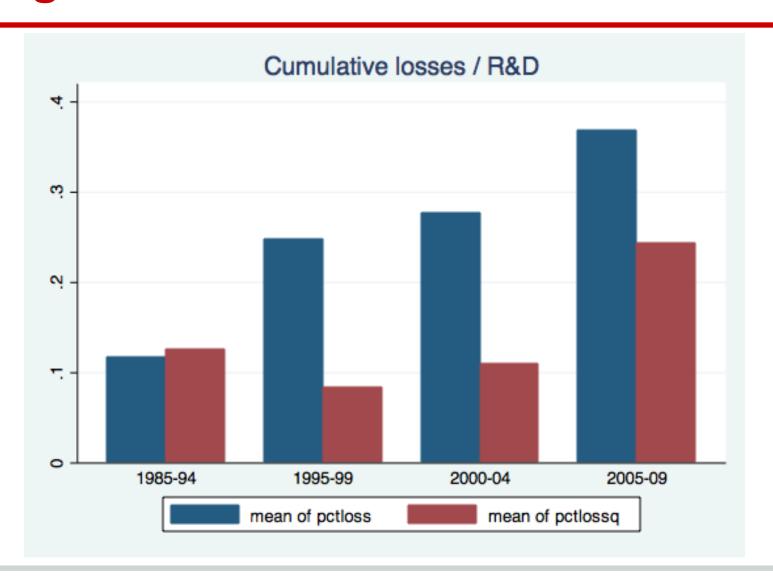
Unfortunately...



Unfortunately...



Large relative to R&D



Two New Twists

1. Trolls

a.k.a. "Non-practicing Entities" (NPEs)

2. Patent wars

What is an NPE?

- Does not use technology
 - cannot be countersued
- Licenses "freedom from suit", not technology
 - typically sues innovative companies

Typically

- Buy up old patents
- O Some 1,000s patents
- Assert vs. multiple parties

NPE litigation

- Mainly, SW and business methods
 - O 62% are software patents
- Old patents
 - O Average: 8 years old
 - O Many "continued"
- Suing tech companies

Growth of Troll Defendants



Fuzzy Troll Patent: 7,222,078

- Continued from 1992 application
- Bought & prosecuted by Intellectual Ventures
 - spun off to Lodsys
- Asserted against app developers
- Vague wording

Software patents => Word Games

Methods and systems for gathering information from units of a commodity across a network

Claim 1. A system comprising: units of a commodity that can be used by respective users in different locations, a user interface, which is part of each of the units of the commodity, configured to provide a medium for two-way local interaction between one of the users and the corresponding unit of the commodity, and further configured to elicit, from a user, information about the user's perception of the commodity, a memory within each of the units of the commodity capable of storing results of the two-way local interaction, the results including elicited information about user perception of the commodity, a communication element associated with each of the units of the commodity capable of carrying results of the two-way local interaction from each of the units of the commodity to a central location, and a component capable of managing the interactions of the users in different locations and collecting the results of the interactions at the central location.

Commodities on a network

Patent Trolls:

A business model to take advantage of weakness in patent system

Do NPEs promote innovation?

Costs to defendants

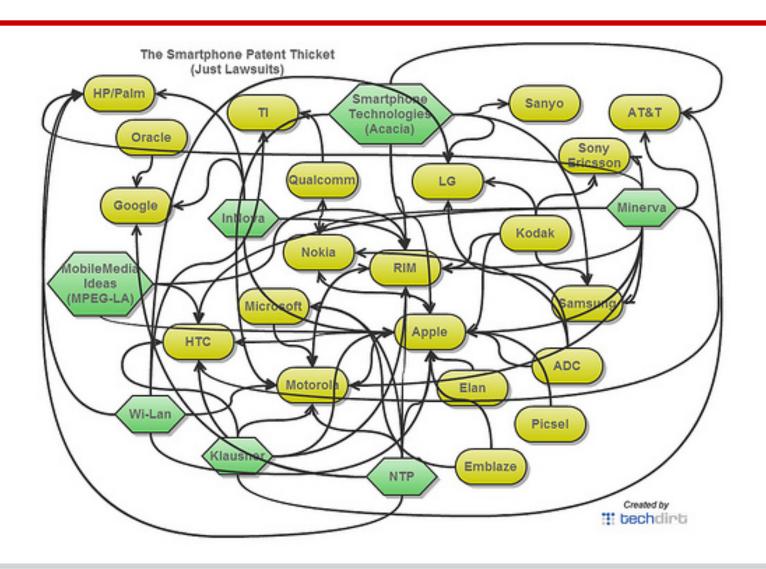
Flows to inventors

\$25b legal, license

\$80b total business

~4%

End of Industrial Peace



Poor patents

Apple v HTC

5,481,721

5,519,867

5,566,337

5,929,852

5,946,647

5,969,705

6,275,983

6,343,263

5,915,131

RE39,486

Poor patents

Apple v HTC

5,481,721

5,519,867

5,566,337

5,929,852

5,946,647 => re-design around "data tapping"

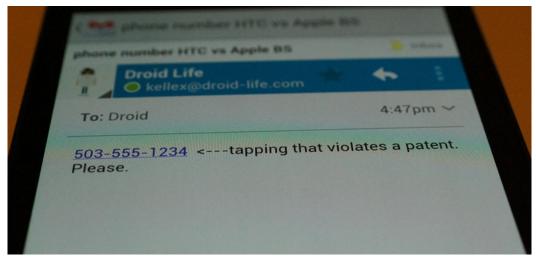
5,969,705

6,275,983

6,343,263

5,915,131

RE39,486



Poor patents

Apple v HTC

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5,481,721
5,519,867
5,566,337
5,929,852
5,946,647 + 1 MINOR improvement over Borland, 1983
5,969,705
6,275,983
6,343,263
5,915,131
RE39,486
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Damage, nevertheless

- HTC delayed
- Microsoft
 - Android \$\$ >> Windows phone \$\$
- \$20b patent buying

What does this have to do with innovation?

Only valuable to large companies

	1996	2006
Share of public firms with patents		
Pre-packaged software publishers	24%	33%
" , startups (newly public)	20%	12%
Share of SW patents to top 10 firms	75%	81%

Summary: SW, business patents

- Privately valuable
 - to large firms
 - to "trolls"
- Costly to society, small innovators
- Not an innovation incentive overall

