

CALIFORNIA'S STEM CELL INITIATIVE

CONFRONTING THE LEGAL & POLICY CHALLENGES March 2 - 4, 2006

Getting IP Rights Right

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3.3.2006

Primary Issues

Historical Overview: Ethical considerations and US Patent Law

 Brief Review of major IP issues related to California Stem Cell Initiative

Specific recommendations

"Some strings attached" approach

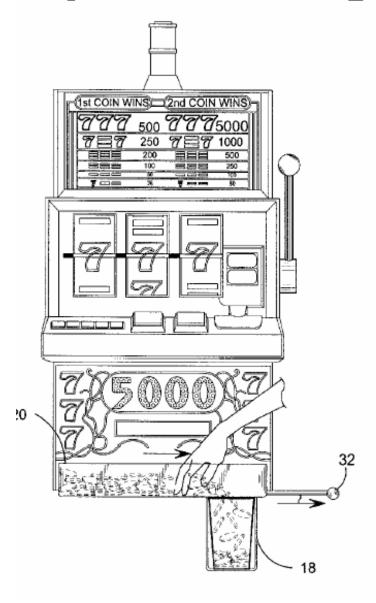
Historical Overview

 Moral and ethical considerations enter into patent law decisionmaking in only a very limited way

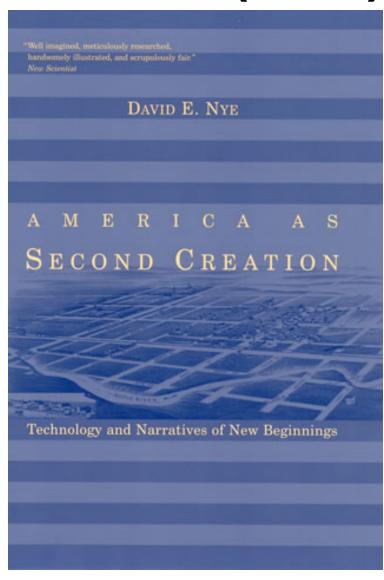
"Division of labor" theory

 Merges, The Patentability of Higher Life Forms: Intellectual Property Rights and Controversial Technologies, 47 Maryland Law Review 1051-1075 (1988).

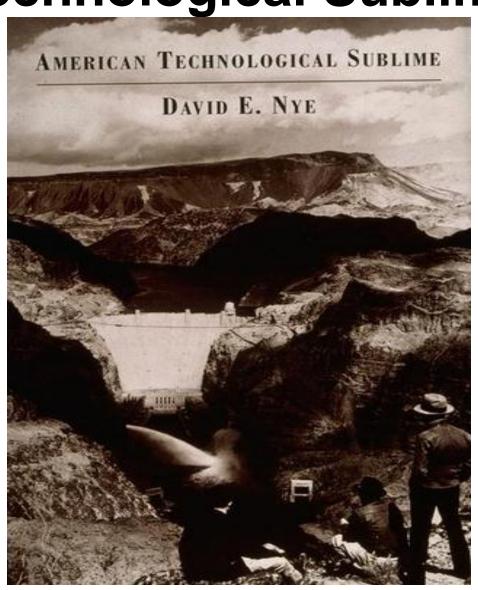
Case Study: Gambling Patents



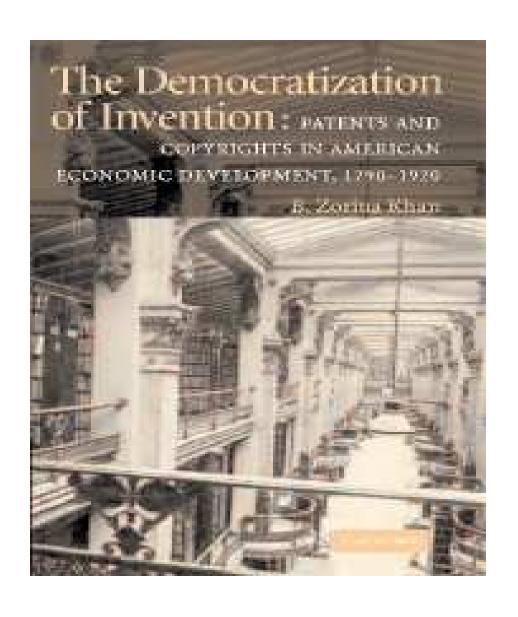
David Nye, America as Second Creation (2003)



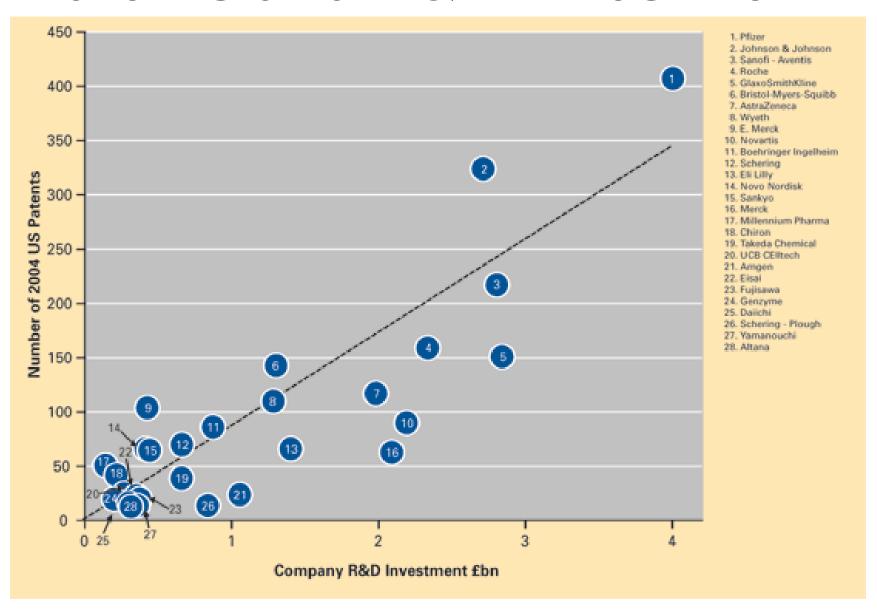
David Nye, American Technological Sublime



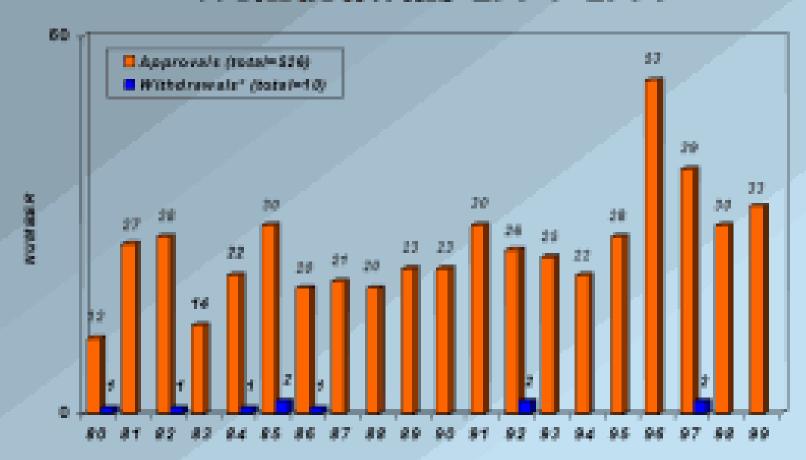
Zorina Khan, The Democratization of Invention



Patents and R&D Investment



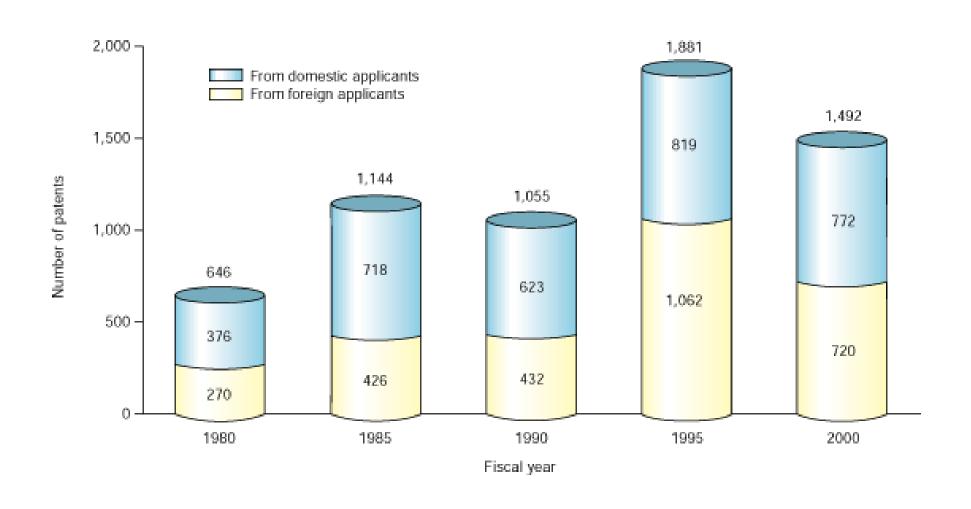
New Drug Approvals and Withdrawals 1990-1999



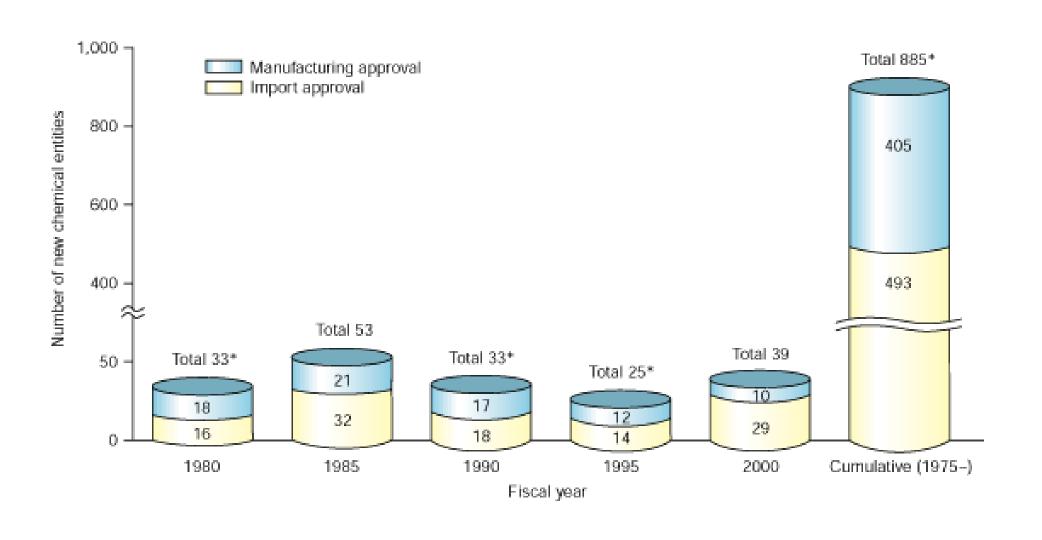
^{*} Withdrawals indicated by year of drug approval Source: Tuffs CSDD, 2000



Many patents . . .



Very few product approvals



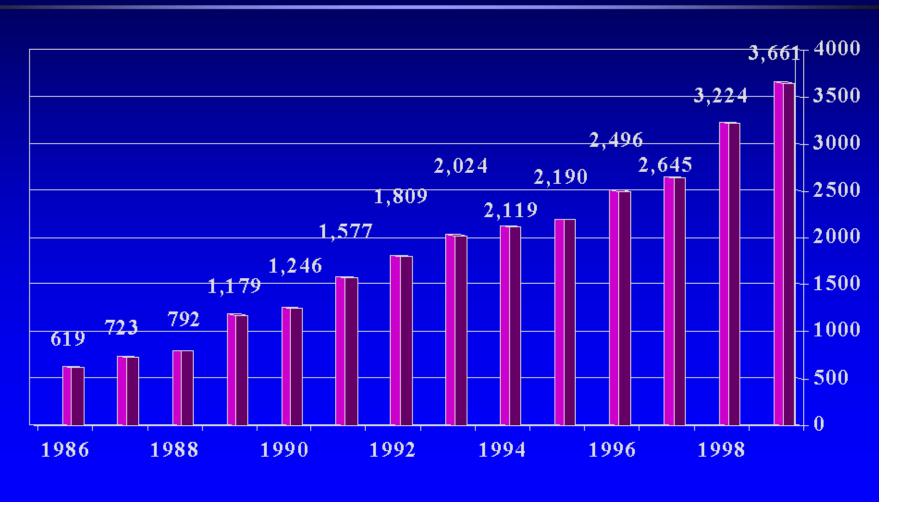
Paul A. David - Stanford



"Can 'Open Science' be Protected from the Evolving Regime of IPR Protections?"



Patents to Universities 1986 - 1999

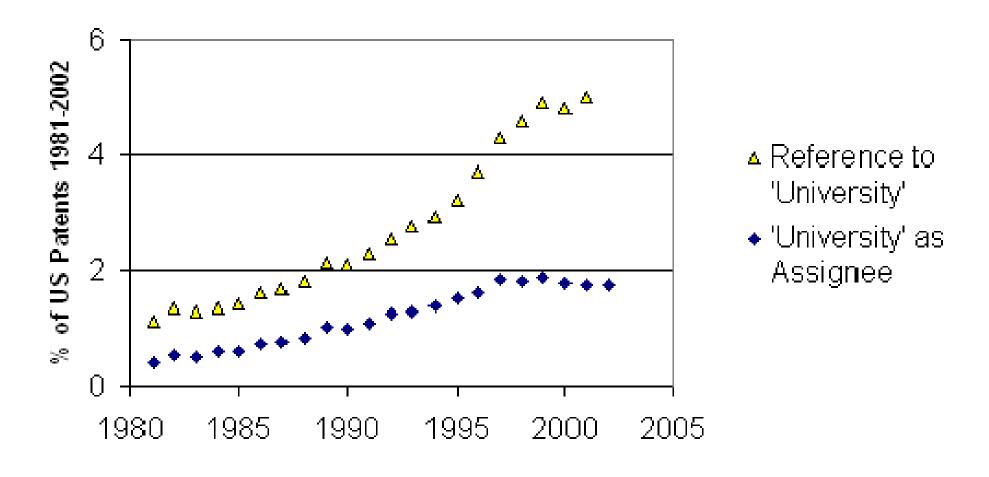


David Mowery et al.



 "Ivory Tower and Industrial Innovation: University-Industry Technology Transfer Before and After the Bayh-Dole Act"

2004



Loet Leydesdorff, University of Amsterdam

- Lori Pressman, et al., The Licensing of DNA Patents by U.S. Institutions, 24 Nature Biotech. 31-39 (1 Jan. 2006)
 - University licensing offices do a good job balancing economic goals with social goals, "such as ensuring utilization and availability of federally funded inventions."

-- p. 39

Exclusivity in <u>limited fields</u>, to promote maximum usage of inventions

Milestones and termination provisions to ensure diligence by licensees





Eric G. Campbell *et al.*, <u>Data Withholding</u> in Academic Genetics: Evidence from a <u>National Survey</u>. Journal of the American Medical Association 287 (4):473 – 479 (2002)

35% of respondents said secrecy a bigger problem in 1990 vs. 1980; 58% said data withholding hurt their research

 Jeremy M. Grushcow, Measuring Secrecy: A Cost of the Patent System Revealed, 33 J. Legal Stud. 59 (2004)

• John P. Walsh & Wei Hong, Secrecy is Increasing in Step with Competition, 422 Nature 801 (2003).

Recommendations: "Some Strings Attached"

- Encourage private commercialization via licensing
- Require limited exclusivity, where relevant, milestones and termination provisions
- Discourage publication delays