IP and the US Economy: Some economic highlights

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What's ahead

- The Office of the Chief Economist (OCE) research areas
- IP-intensive industries
- Women's participation
- Standards of evidence (causal analysis)



OCE research areas: patents

1. Impact of patents on innovation and performance

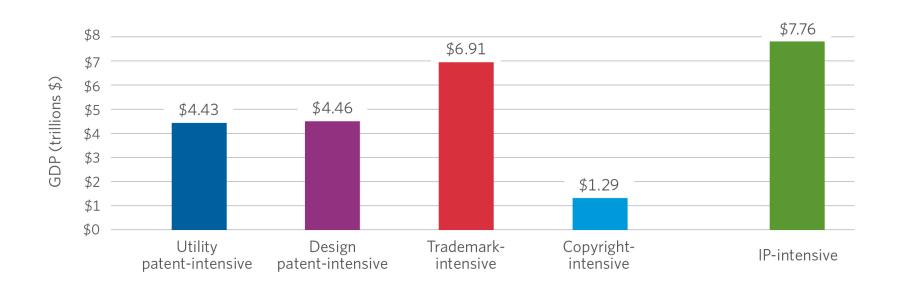
2. Implications of laws and policies related to patents

3. Evidence building for USPTO initiatives

Studies of IP-intensive industries



IP-intensive industries accounted for significant economic output in 2019





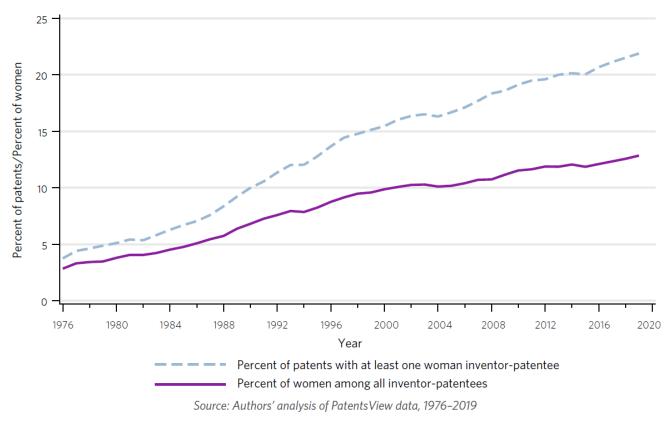
Studies of Women's participation





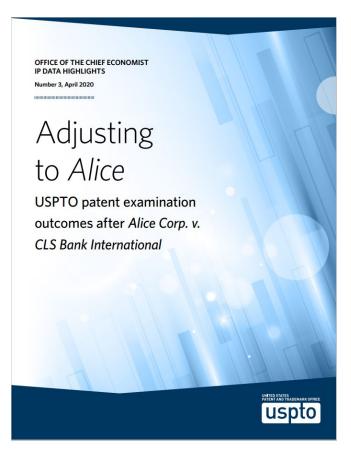
Women patent and invent more over time

Figure 1: Patenting and participation by U.S.-based women inventor-patentees, 1976–2019



uspto

Patent law: Alice vs CLS Bank



- A 31% increase in the likelihood of receiving a first action rejection in first 18 months.
- A 26% increase in uncertainty in patent examination in first 18 months.

The push for causal analysis

U.S. Patent and Trademark Office OFFICE OF THE CHIEF ECONOMIST Economic Working Paper Series

Closing the gender gap in patenting:
Evidence from a randomized control trial at
the USPTO

Nicholas A. Pairolero, United States Patent and Trademark Office Andrew A. Toole, United States Patent and Trademark Office Peter-Anthony Pappas, United States Patent and Trademark Office Charles A.W. deGrazia, Ecole de Management Léonard De Vinci Mike H.M. Teodorescu, University of Washington, Information School



- Additional guidance and information improved the chances of receiving a patent for all pro se applicants, particularly for women inventors.
 - Men applicants had a 6.1 percentage point increase in their likelihood of receiving a patent.
 - For women, the chances of receiving a patent went up by 16.8 percentage points, nearly 11 percentage points more than for men.



Thank you!

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