



Calling all Women Inventors

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Topics

- Our stories
- Why we need to “Make What’s Next”
- Patenting 101
- Microsoft’s Make What’s Next Program
- Careers x Intellectual Property
- Q&A

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BOSTON COLLEGE | **LAW**



Stanford
LawSchool

Do you know any women inventors?



<https://www.youtube.com/watch?v=Dth5pacoHMs>

We need to Make What's Next!

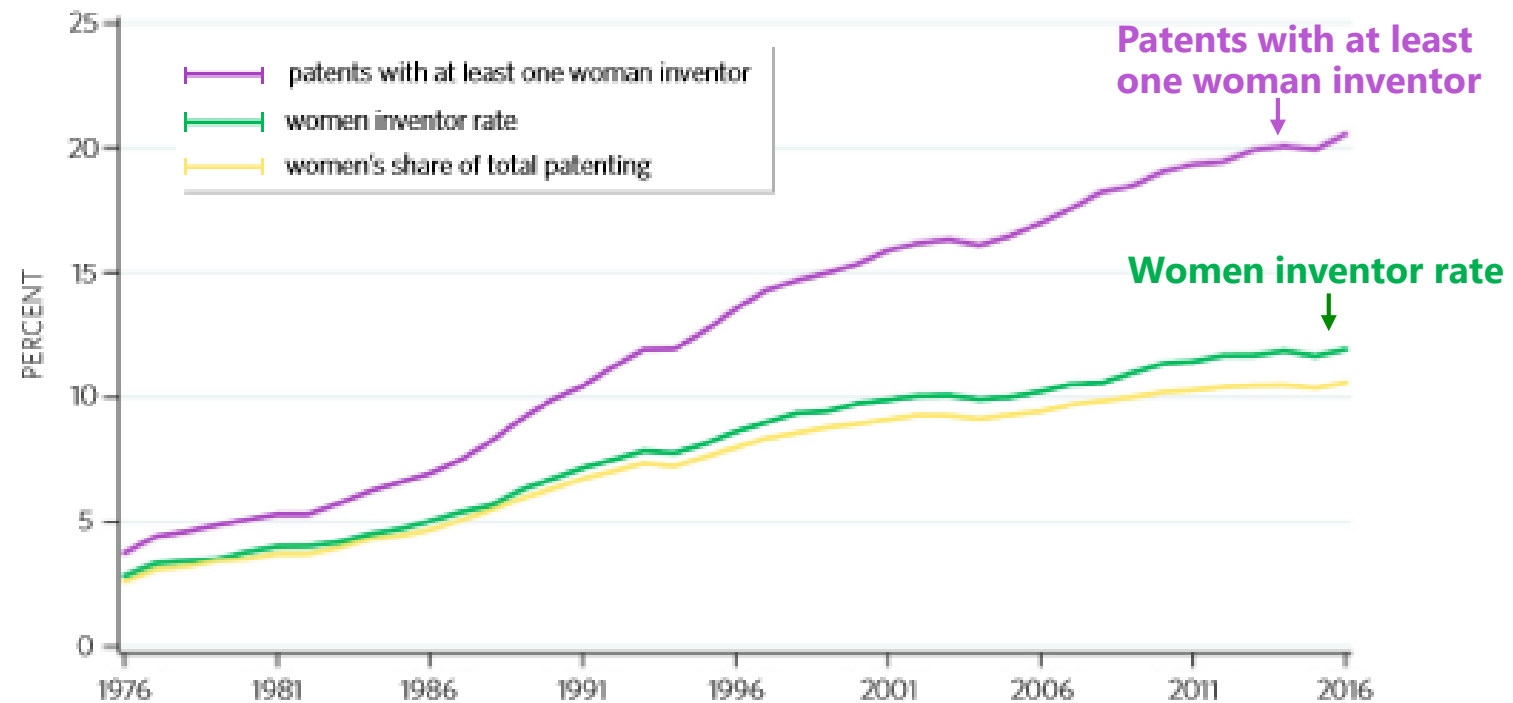
12% of all patent inventors in the US are women

(granted patents from 1976-2016)

Numbers highlight untapped potential of women to spur innovation

If we continue at this rate, we won't reach gender parity until 2092

Figure 1. Forty-Year Trends in Women Patenting



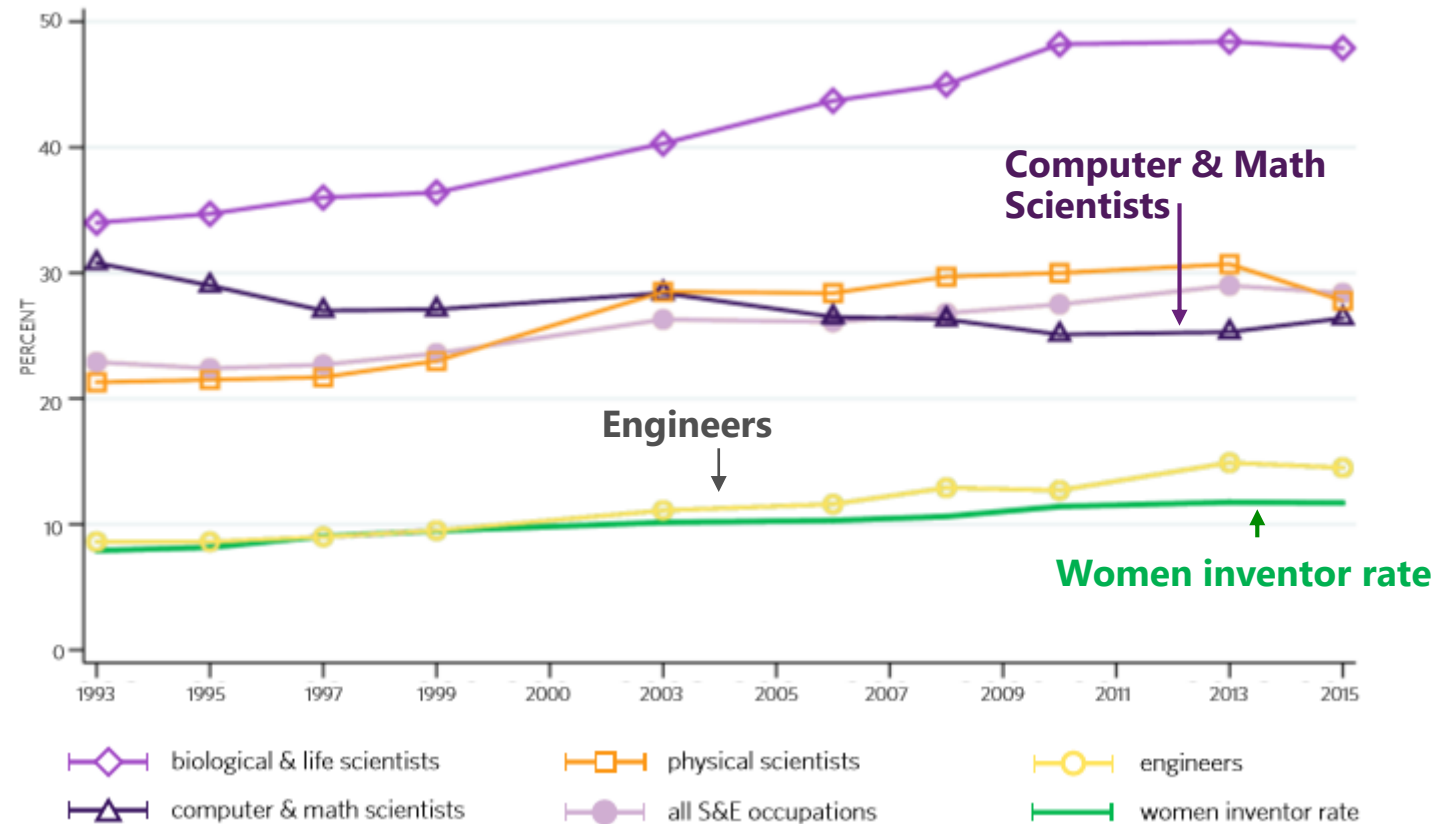
<https://www.uspto.gov/learning-and-resources/ip-policy/economic-research/progress-potential>

More study findings

Across nearly all science occupations, women participate at a much higher rate than they invent patented technology

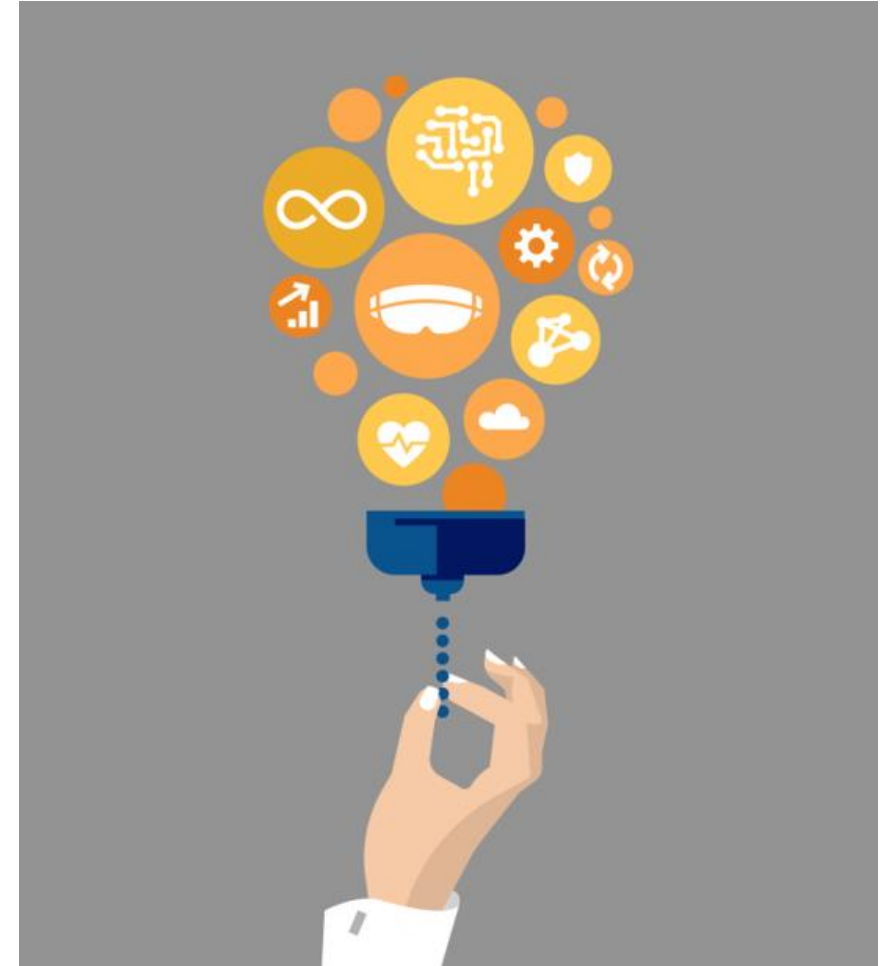
Women are increasingly likely to collaborate with other inventors rather than patent alone and more likely to participate on gender-mixed teams

Figure 2. Women Patent Inventors vs. Women in Science and Engineering Occupations



Why are patents valuable?

- For you
 - Provide satisfaction and pride in the accomplishment
 - Increase technical recognition and credibility
 - Allow you to be a role model and inspiration to others
 - And potentially receive incentives
- For advancing technology
 - “If women, minorities, and low-income children were to invent patented technology at the same rate as white men from high-income (top 20%) households, the rate of innovation in America would quadruple.”



http://www.equality-of-opportunity.org/assets/documents/inventors_summary.pdf

Patenting 101

What is a Patent?



Protects novel, non-obvious, useful ideas.



Specification (written description and instruction);
Figures (useful in explaining invention);
Claims (defines scope of the invention);

.



Exclusionary right (no making, using, selling, offering for sale or importing).

Utility Patents

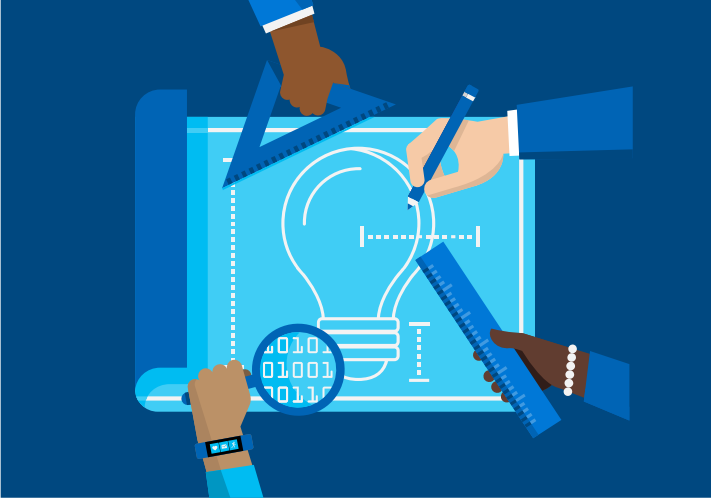
Protect the utility and functionality of the invention.

Design Patents

Protect the aesthetics (look) of the invention.

Hardware designs, icons, animations, etc.

Who is an Inventor?



Not
someone
who just
implements
or tests

Contributes to
claimed invention



Person "A" says: "We should build a better umbrella."

Person "B" says: "The architecture would broadly include a handle that is capable of securing a beverage container to the umbrella."

Person "C" determines that using an spring loaded cuff enables different sized beverage containers to be secured to the umbrella.

Person "D" goes off and implements to "C's" spec.

US 6,961,905 B1

Claim 1:

A method of modifying an image on a web page, the method comprising:
establishing communication with a remote computer using at least one Internet protocol;

downloading the web page from the remote computer;

displaying the web page in a web-browser interface;

in response to the user selecting the image from the displayed web page directly from the web-browser interface, presenting the image in an editing interface for modification by the user; and

saving the modified image as a modified source file on the remote computer replacing a source file of the image as downloaded.



US006961905B1

(12) **United States Patent**
Cover et al.

(10) **Patent No.:** **US 6,961,905 B1**
(45) **Date of Patent:** **Nov. 1, 2005**

(54) **METHOD AND SYSTEM FOR MODIFYING AN IMAGE ON A WEB PAGE**

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(73) Assignee: **Microsoft Corporation**, Redmond, WA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 411 days.

(21) Appl. No.: **09/599,999**

(22) Filed: **Jun. 23, 2000**

(51) Int. CL⁷ **G06F 3/00**; G06F 15/16

(52) U.S. CL. **715/760**; 715/748; 715/822; 709/219

(58) Field of Search 345/744, 760, 345/810, 838, 764; 707/500, 501.1, 513; 715/500, 501.1, 513, 764, 760, 810, 838, 715/748, 822

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,727,156 A * 3/1998 Herr-Hoyman et al. 709/219
6,023,269 A * 2/2000 Matsuo 345/748
6,085,195 A * 7/2000 Hoyt et al. 707/10
6,151,609 A * 11/2000 Truong 715/505
6,343,302 B1 * 1/2002 Graham 715/501.1
6,516,339 B1 * 2/2003 Potts et al. 709/203
6,591,295 B1 * 7/2003 Diamond et al. 709/217
2001,0011275 A1 * 8/2001 Lin et al. 707/9

OTHER PUBLICATIONS

Netscape Communicator / Composer v. 4.61 (Screendumps of Netscape Communicator v. 4.61, 1999, pp. 1-6).
Netscape Communicator/Composer v. 4.61 and Prizm Plug-in 2.1 (Screendumps; pp. 1-3; 1999 and 1998 respectively).
Prizm Plug-in Personal Edition 2.1 (Mar. 1998; pp. 1-2; information printed from FreeDownloads Center website).
Microsoft PhotoDraw 2000 Fast Facts, Microsoft Office, Oct. 1998, preliminary unpublished document, pp. 1-4.
Microsoft PhotoDraw 2000 Fast Facts, Microsoft Office, Oct. 1998, downloaded from Microsoft.com, published 2000.
Microsoft PhotoDraw 2000 Tour, Microsoft Office, downloaded from Microsoft.com, published 2000, pp. 1-6.
Part of NS 2000, NetStudio tutorial, downloaded Mar. 28, 2000.

* cited by examiner

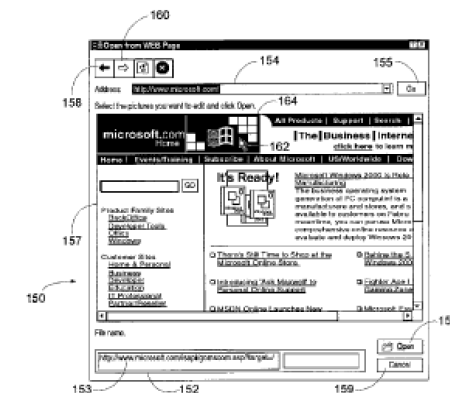
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(57) **ABSTRACT**

An editing program establishes communication with a remote computer using an Internet protocol, downloads a web page containing one or more imported images and displays the web page on a user interface. As the user moves a cursor over an imported image, its appearance may change. The user may select an imported image to edit directly from the displayed web page. In response to the user selecting an image, the editing program presents the image in an editing interface for modification by the user. The image may then be saved back to its original location according to write access permissions.

26 Claims, 9 Drawing Sheets



US 8,012,023 B2

Claim 1:

A computer implemented system comprising:

at least one processor that executes the following computer executable components stored on at least one computer readable medium:

a virtual reality generation component that emulates real-life activities of a guest that is remotely viewing a spectator event that takes place outside of a virtual environment into corresponding virtual activities of a virtual guest representation in the virtual environment; and

a presentation component that presents the virtual activities of the virtual guest representation to a user that is attending the spectator event as an in-person spectator, the presentation system to facilitate an interaction of the user with the virtual guest representation provided in the virtual environment as the guest is remotely viewing the spectator event.



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(12) **United States Patent**
Gates, III et al.

(10) **Patent No.:** **US 8,012,023 B2**
(45) **Date of Patent:** **Sep. 6, 2011**

(54) **VIRTUAL ENTERTAINMENT**

(56) **References Cited**

(75) Inventors: **William H. Gates, III**, Medina, WA (US); **Gary W. Flake**, Bellevue, WA (US); **Alexander G. Goumares**, Kirkland, WA (US); **Thomas F. Bergstraesser**, Kirkland, WA (US); **Arnold N. Blinn**, Hunts Point, WA (US); **Christopher W. Brumme**, Mercer Island, WA (US); **Lili Cheng**, Bellevue, WA (US); **Michael Connolly**, Seattle, WA (US); **Daniel S. Glasser**, Mercer Island, WA (US); **James R. Larus**, Mercer Island, WA (US); **Matthew B. MacLaurin**, Woodinville, WA (US); **Henricus Johannes Maria Meijer**, Mercer Island, WA (US); **Debi P. Mishra**, Bellevue, WA (US); **Amit Mital**, Kirkland, WA (US); **Ira L. Snyder, Jr.**, Bellevue, WA (US); **Melora Zaner-Godsey**, Redmond, WA (US)

U.S. PATENT DOCUMENTS
5,263,165 A 11/1993 Janis
5,495,576 A * 2/1996 Ritchey 345/420
5,537,404 A 7/1996 Bentley et al.
5,588,914 A * 12/1996 Adamczyk 463/32
5,774,668 A 6/1998 Choquier et al.
5,850,352 A 12/1998 Moezzi et al.
5,859,972 A 1/1999 Subramaniam et al.
(Continued)

FOREIGN PATENT DOCUMENTS

EP 0915595 A2 5/1999

(Continued)

OTHER PUBLICATIONS

Brunner, et al. "Disruption Tolerant Networking" Dagstuhl Seminar Proceedings (2005) NEC Europe Ltd., Network Laboratories, 4 pages.

(Continued)

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(74) *Attorney, Agent, or Firm* — Lee & Hayes, PLLC

(73) Assignee: **Microsoft Corporation**, Redmond, WA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 577 days.

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(22) Filed: **Sep. 28, 2006**

(65) **Prior Publication Data**
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(51) **Int. Cl.**
A63F 13/00 (2006.01)

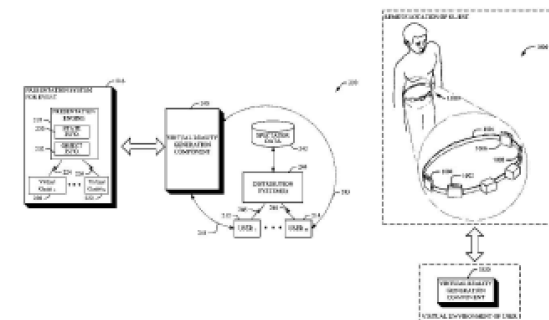
(52) **U.S. Cl.** 463/40; 463/31; 715/706

(58) **Field of Classification Search** 463/31, 463/34, 40, 41, 43; 715/706

See application file for complete search history.

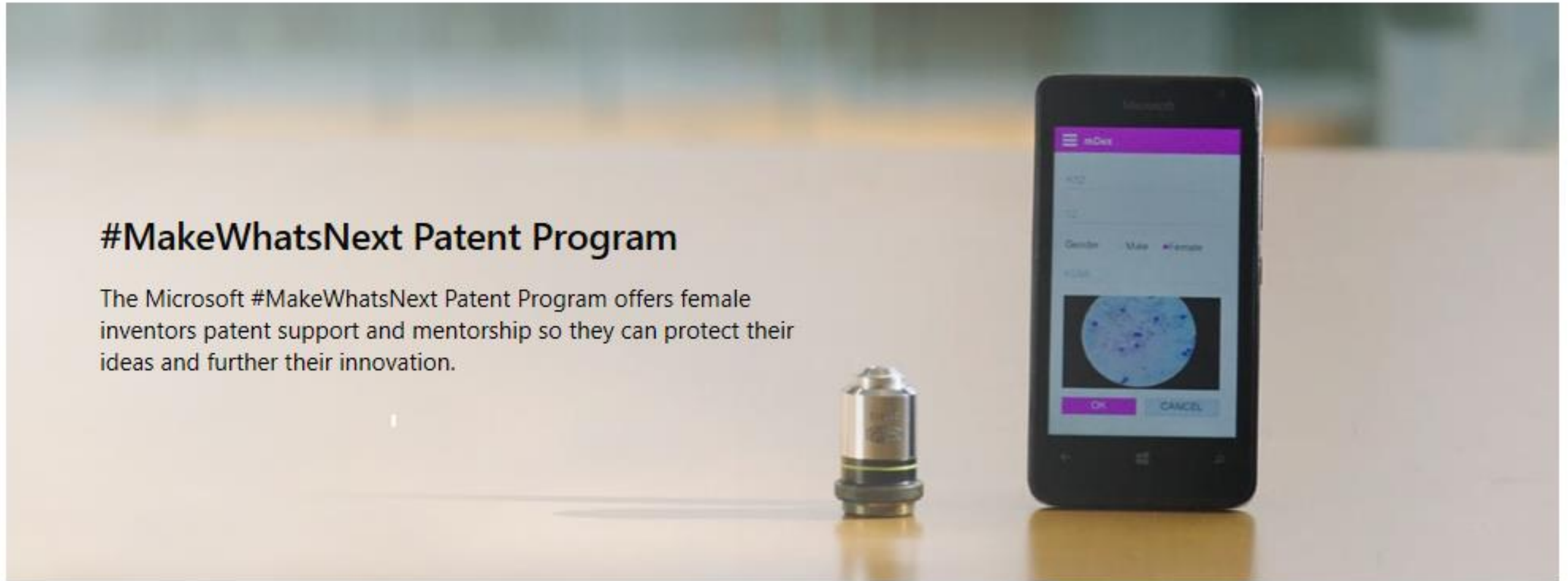
(57) **ABSTRACT**
Systems and methods that provide for a virtual reality entertainment system that supplies immersive entertainment and creates a sensation for a user similar to having guests in a remote location to be physically present as virtual guests. Such virtual reality entertainment system can supply a graphic and/or audio; wherein interconnected computers, video and audio processing devices, supply a live interaction between a user and a guest(s). Although guests are only present virtually (e.g., electronically present with other objects/user within the environment) such virtual invitation enables a user and guests to concurrently experience the entertainment together (e.g., a live sporting event, spectator game). In a related aspect, the subject innovation can implement holographic avatars, and a plurality of communication interfaces, to imitate (and/or transform) a relationship between the user and the virtual guests/surrounding environment.

20 Claims, 13 Drawing Sheets



Make What's Next program

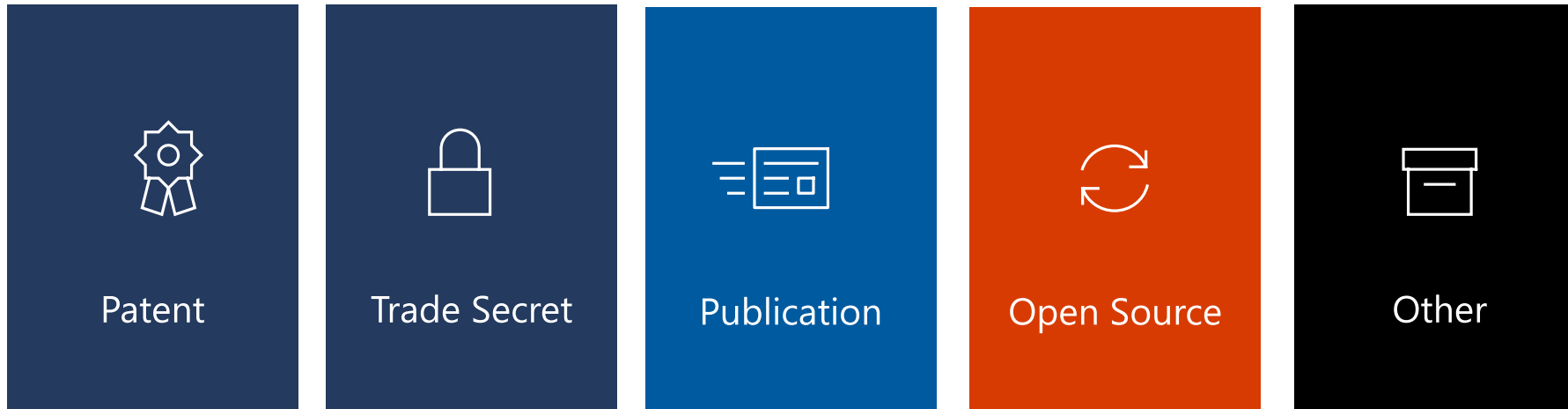
Microsoft's MakeWhatsNext program



<https://www.microsoft.com/en-us/patent-program>

Careers x Intellectual Property

Careers x Intellectual Property



Inventors
Patent Attorneys
Patent Agents
Patent Engineers
Licensing Attorneys
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Q & A

