

**UNITED STATES
PATENT AND TRADEMARK OFFICE**



USPTO PatentsView

2017 WORKSHOP

Engaging User Communities



PatentsView Product Launches

2017 USPTO PatentsView Workshop
Engaging User Communities

UNITED STATES
PATENT AND TRADEMARK OFFICE



Overview

- Data Updates: New Fields
- Data Visualization & Export
- Government Interest
- PatentsView Community Webpage

Data Updates:

NEW FIELDS TO API & DATA QUERY



New Front of Patent Fields

Summary Text	Detailed Description Text	Drawing Description Text
Number of Drawings & Figures	Non-Inventor Applicant	Foreign Priority
PCT	Related Documents	Examiner (raw) Name

Data Visualization & Export:
**EXPORTABLE GRAPHS, MAPS,
NETWORKS & MORE**



USPTO PatentsView

The PatentsView search tool allows audiences to interact with nearly 40 years of data on patenting activity in the US. Use the tool to explore technological, regional, and individual-level trends through several search filters and multiple view options.

VIEW RESULTS BY:

Patent Inventor Assignee Class

Patent	Inventor
<input type="text" value="title or number"/>	<input type="text" value="first and/or last name"/>
Assignee	USPC Patent Class
<input type="text" value="name"/>	<input type="text" value="name or number"/>
At-Issue Location	Grant Date (1976–2014)
<input type="text" value="country"/> <input type="text" value="state"/> <input type="text" value="city"/>	<input type="text" value="yyyy, mm/yyyy, or range"/>

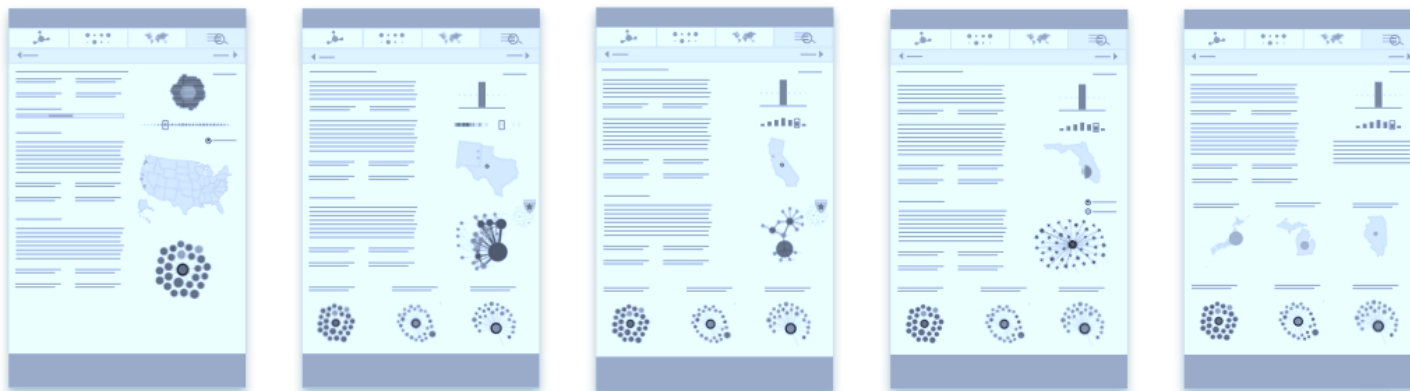
Visualizations



Search

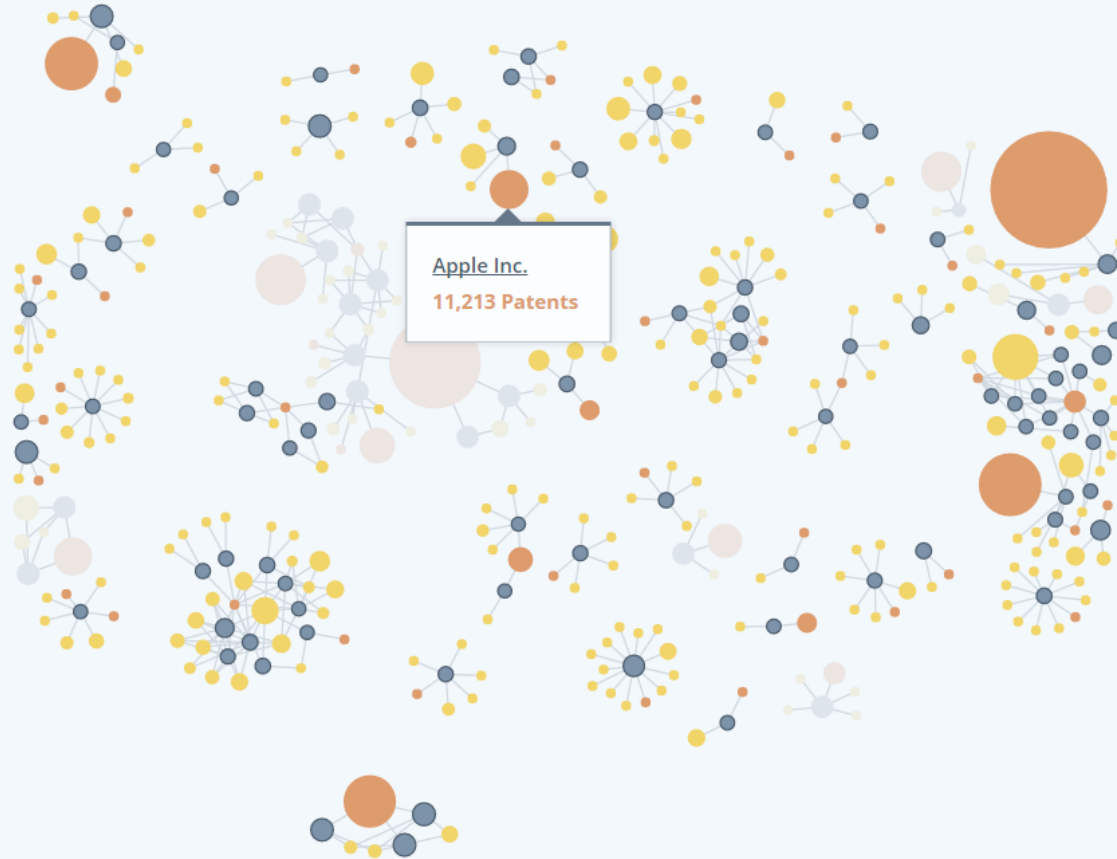


Details



● Patents Granted (Since 2001) ● Inventors ● Assignees

Showing top 100 cited patents

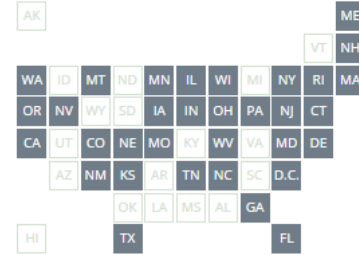


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RELATED LOCATIONS [-]

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COUNTRY

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Canada

Iceland

Israel

Japan

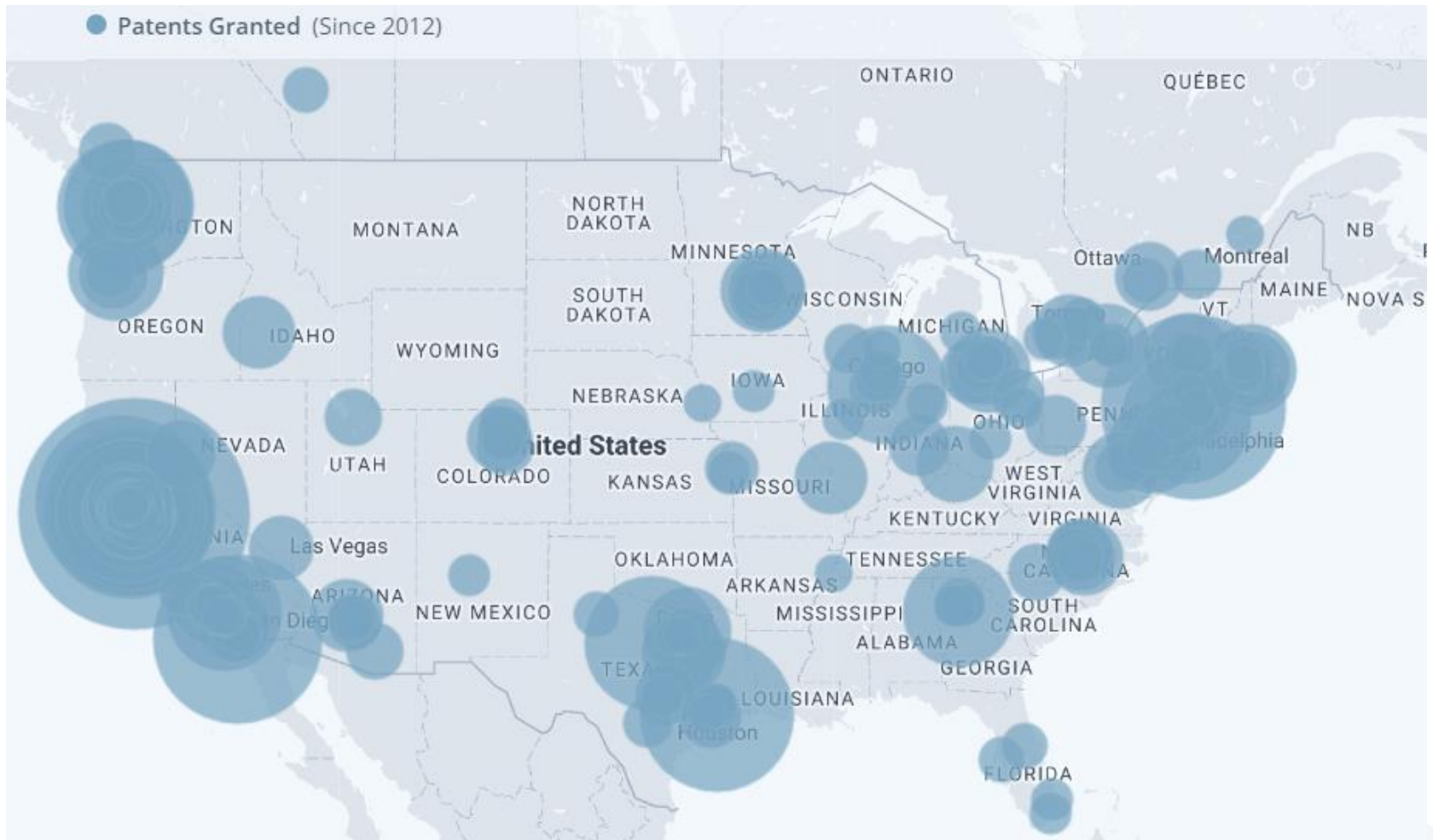
Sweden

United States

Virgin Islands, British

RELATED TECH FIELDS [+]

oto



All Innovators

Inventors

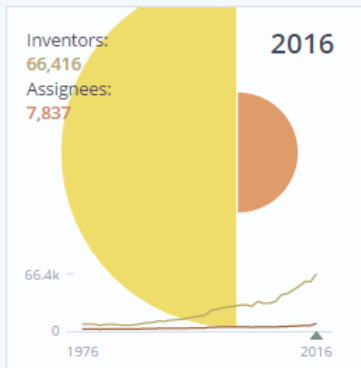
Assignees

GROUP BY: U.S. States

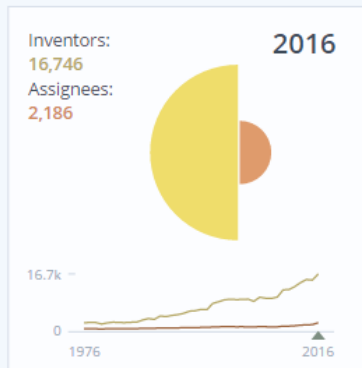
SORT BY: Most - Fewest

FILTER BY: All Tech Fields

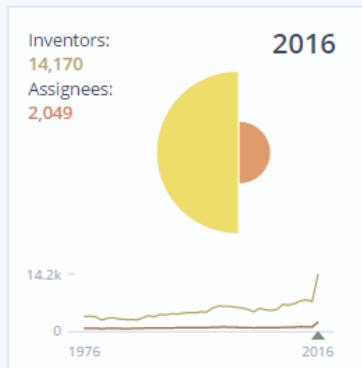
California



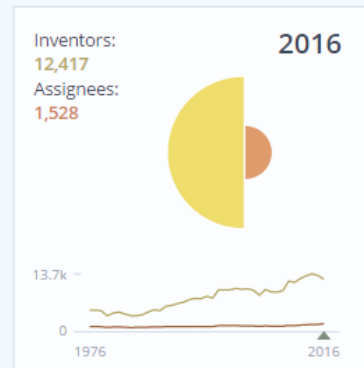
Texas



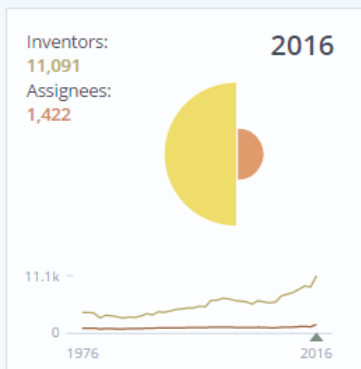
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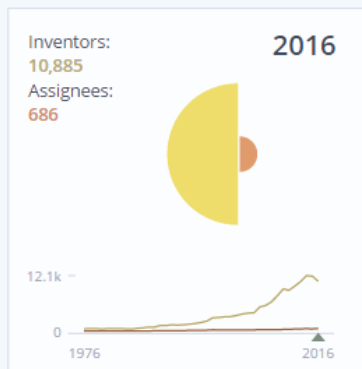
New York



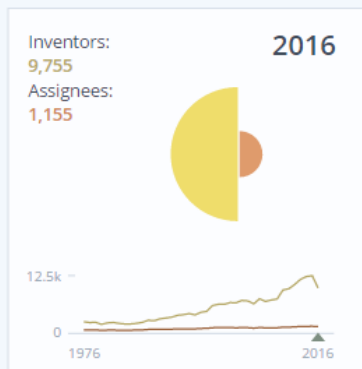
Illinois



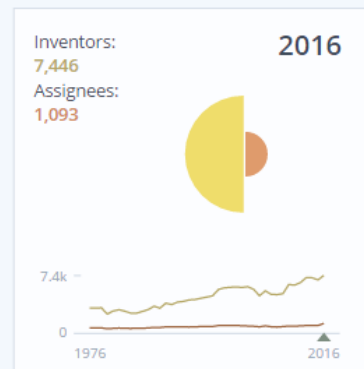
Washington



Massachusetts



Ohio



VIEW RESULTS BY:

Patent

Inventor

Assignee

Classification: CPC

SEARCH OPTIONS

RESET

SEARCH

Patent

with the exact phrase:

with all these words:

with at least one of the words:

title or number

Patent Type (show only)

Utility Design Plant

autonomous vehicle

Inventor

Assignee, At-Issue

Patent Class

Location, At-Issue

Date (1976-Present)

Either Filed Granted

yyyy, mm/yyyy, or range

We found **215 patents** matching your search criteria.

Additional results include **373 inventors**, **78 assignees** and **66 CPC classes**.

showing 50 of 215 patents

EXPAND PATENT SUMMARY +

PATENT TITLE	CITATIONS	FILED DATE	GRANT DATE
Navigational control system for an autonomous vehicle	345	19 May 1990	5 May 1992
Autonomous vehicle arrangement and method for controlling an autonomous vehicle	333	3 Nov 1998	21 Nov 2000
Apparatus and method for autonomous vehicle navigation using path data	271	1 May 1995	25 Mar 1997
Multi-purpose autonomous vehicle with path plotting	240	7 Aug 1991	8 Dec 1992
Autonomous vehicle for working on a surface and method of controlling same	182	7 Feb 1989	9 Oct 1990

WHERE THIS PATENT HAS BEEN CITED

EXPORT



CITATION LOCATIONS

Inventors on This Patent Inventors on Citing Patents



Showing maximum 200 of 205 total locations



PATENT DETAILS

Navigational control system for an autonomous vehicle

PUBLICATION NUMBER	INVENTORS	ASSIGNEES AT-ISSUE
5111401	<ol style="list-style-type: none"> <u>Hobart R. Everett, Jr.</u> San Diego, CA, US <u>Gary A. Gilbreath</u> San Diego, CA, US <u>Robin T. Laird</u> San Diego, CA, US 	<ol style="list-style-type: none"> <u>The United States of America as represented by the Secretary of th...</u> Washington, DC, US

WHERE THIS PATENT HAS BEEN CITED

📍 Inventors on This Patent ● Inventors on Citing Patents



Government Interest:

NEW LIST SEARCH FEATURES

VIEW RESULTS BY: **Patent** Inventor Assignee Classification: CPC

SEARCH OPTIONS

RESET SEARCH

Patent

- with the exact phrase:
- with all these words:
- with at least one of the words:

title or number

Patent Type (show only)

- Utility Design Plant

Inventor

Assignee, At-Issue

Patent Class

Location, At-Issue

Government Interest

- Either Name Org. ID

organization name or id

Date (1976-Present)

- Either Filed Granted

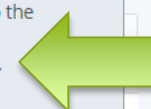
yyyy, mm/yyyy, or range

Government Interest

What is Government Interest?

Data are extracted from the government interest statement on a patent. Government organization name and contract or grant number are then parsed and structured using the Stanford-maintained Named Entity

Recognition library and information retrieval techniques. The government organization name is mapped to the current hierarchy of the U.S. federal government organizations. More information is available [here](#).



Search for patent results

The following is an example of tagged output produced by the Java NER library (via the three class model) and subsequently parsed by the Perl code:

```
The <ORGANIZATION>United States Government</ORGANIZATION>
has rights in this invention under Contract No. DE-AC36-
08G028308 between the <ORGANIZATION>United States
Department of Energy</ORGANIZATION> and the
<ORGANIZATION>Alliance for Sustainable
Energy</ORGANIZATION>, <ORGANIZATION>LLC</ORGANIZATION>,
the Manager and Operator of the <ORGANIZATION>National
Renewable Energy Laboratory</ORGANIZATION>.
```

VIEW RESULTS BY: Patent Inventor Assignee Classification: CPC

SEARCH OPTIONS

RESET SEARCH

Patent

- with the exact phrase:
- with all these words:
- with at least one of the words:

title or number

Patent Type (show only)

- Utility
- Design
- Plant

Inventor

Assignee, At-Issue

Patent Class

Location, At-Issue

Government Interest

- Either
- Name
- Org. ID

cancel

119 National Cancer Institute

- Either
- Filed
- Granted

yyyy, mm/yyyy, or range

Use the search options to explore over 5 million U.S. patents around the world.

showing 0 of 0 patents

EXPAND PATENT SUMMARY

PATENT TITLE CITATIONS FILED DATE GRANT DATE

Search for patent results

VIEW RESULTS BY: Patent Inventor Assignee Classification: CPC

SEARCH OPTIONS

RESET SEARCH

Patent

with the exact phrase:
 with all these words:
 with at least one of the words:

title or number

Patent Type (show only)

Utility Design Plant

Inventor

Assignee, At-Issue

Patent Class

Location, At-Issue

Government Interest

Either Name Org. ID

National Cancer Institute

National Cancer Institute x

Date (1976-Present)

Either Filed Granted

yyyy, mm/yyyy, or range

We found **2,041 patents** matching your search criteria.

Additional results include **3,026 inventors**, **438 assignees** and **93 CPC classes**.

showing 50 of 2,041 patents

COLLAPSE PATENT SUMMARY

PATENT TITLE	CITATIONS	FILED DATE	GRANT DATE
Method and apparatus for the endoscopic treatment of deep tumors using RF hyperthermia	362	31 Aug 1988	1 May 1990
PUBLICATION NUMBER US4920978	CLASS CPC: A61N, A61B NBER: 32 USPC: 607	INVENTORS David P. Colvin	INVENTOR LOCATIONS Apex, NC, US
PATENT TYPE Utility			ASSIGNEE AT-ISSUE Triangle Research and Development Corporation
GOVERNMENT INTEREST ID NAME 87 Small Business Innovation Research (SBIR) 119 National Cancer Institute (NCI)			ASSIGNEE LOCATIONS Raleigh, NC, US
Systems and methods for the multispectral imaging and characterization of skin tissue	254	27 Feb 1998	27 Jun 2000
PUBLICATION NUMBER US6081612	CLASS CPC: A61B, G06T NBER: 22 USPC: 382	INVENTORS Marek Elbaum Dina Gutkowicz-Krusin Michael Greenebaum	INVENTOR LOCATIONS Dobbs Ferry, NY, US Princeton, NJ, US Brooklyn, NY, US Glen Ridge, NJ, US New York, NY, US
PATENT TYPE Utility			ASSIGNEE AT-ISSUE Electro Optical Sciences Inc.
			ASSIGNEE LOCATIONS Irvington, NY, US

PATENT DETAILS

Method and apparatus for the endoscopic treatment of deep tumors using RF hyperthermia

An attachment for an endoscope for the treatment of deep tissue tumors using RF hyperthermia is disclosed. In one embodiment, electrodes are adapted to straddle or penetrate a tumor in order to confine the interstitial current heating and are detachably fitted to the distal end of the endoscope. The electrodes are electrically coupled to an RF generating power source by means of wires that extend... [more](#)

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PATENT INFORMATION

PROCESSING TIME



FILED

Aug 31, 1988

GRANTED

May 1, 1990

PUBLICATION NUMBER

US4920978

PATENT TYPE

Utility

CLASS TYPE

CPC: [A61N - Electrotherapy; magnetotherapy; radiation therapy; ultrasound therapy](#)
[A61B - Diagnosis; surgery; identification](#)
 NBER: [32 - Surgery & Med Inst.](#)
 USPC: [607 - Surgery: light, thermal, and electrical application](#)

INVENTORS

1. [David P. Colvin](#)
[Apex, NC, US](#)

ASSIGNEES AT-ISSUE

1. [Triangle Research and Development Corporation](#)
[Raleigh, NC, US](#)

GOVERNMENT ORGANIZATION(S)

ID	NAME
87	Small Business Innovation Research (SBIR)
119	National Cancer Institute (NCI)

GOVERNMENT INTEREST STATEMENT

This invention was made with partial Government support under SBIR contract No. N93-CM-67951 awarded by the Division of Health and Human Services/National Cancer Institute. The Government may have certain rights in this invention.

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PatentsView Community Webpage:
LEARN, CONTRIBUTE, ENGAGE

Community Site

- **Purpose**
 - The PatentsView community site provides updates on data and tools and links to relevant activities. It is also a curated space for community members to post notes, questions, and provide feedback on PatentsView data products.
- **Sections**
 - Forum
 - Data in Action
 - Events
- **Rules of Conduct**

Forum

- General discussion
- New data fields
- Data quality
- Disambiguation

DATA FORUM

Community Discussion

Contribute to the PatentsView community message board with questions and feedback, or share your interest in patents and innovation. We encourage robust and engaged conversations as we build and expand the community.

Please read the rules of conduct below before participating in the conversation.


[Read the Rules of Conduct](#)

+ Log in to post new content in the forum.

GENERAL DISCUSSION

GENERAL DISCUSSION TOPICS	REPLIES	LAST REPLY
 General FAQs By admin 3 days 2 hours ago	0	n/a

NEW DATA FIELDS

NEW DATA FIELDS TOPICS	REPLIES	LAST REPLY
 New data fields FAQs By admin 3 days ago	0	n/a

[Search PatentsView Community Site >](#)

NEW FORUM TOPICS

Disambiguation FAQs [>](#)

New data fields FAQs

Data quality FAQs

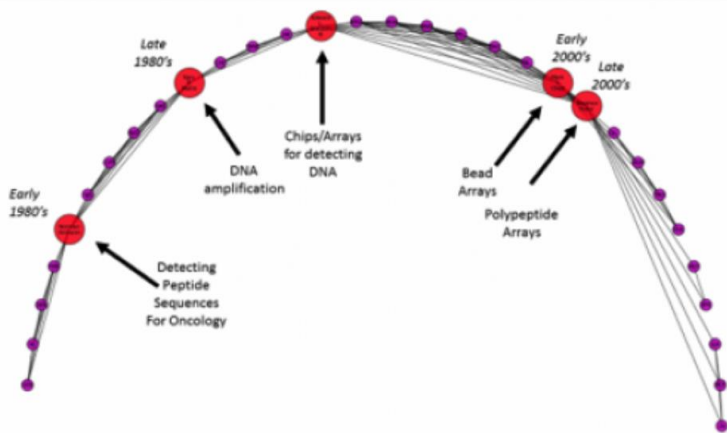
[More](#)

Data Spotlight

There are many ways PatentsView data can be used and visualized. Data in Action is a place for PatentsView data users to share how they are applying patent data and gather feedback from the user community.

We encourage you to submit any examples of the PatentsView data that you have seen or created yourself to be highlighted here.

[Submit a post](#)



Social Network Analysis using PatentsView and NetworkX

Wednesday, October 4, 2017 - 21:13

The USPTO's Office of Chief Economist developed the **InventorAnalyze** package for bibliometric (and other) researchers studying the social networks of inventors, i.e., the community of inventors who collaborate on jointly invented patents. The **InventorAnalyze** package combines disambiguated patent data from the United States Patent and Trademark Office's PatentsView project with social network analysis tools from the Los Alamos National Laboratory's **NetworkX** library. PatentsView uses a statistical algorithm for disambiguating patent inventor names, so that multiple variants of a name are assigned a common identifier and distinct inventors having a similar name are assigned separate identifiers. Such entity resolution is critical to identifying inventors and their

TAGS

PYTHON

OPEN SCIENCE

R

SOCIAL NETWORK ANALYSIS

TESLA

NETWORKX

MEDICINE

FACEBOOK

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