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PATENT AND TRADEMARK OFFICE

uspto



# Patent Quality Chat

## Unlocking Open Data for our Patent Customers

January 9, 2018

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**To send in questions or comments during the webinar, please email:**

**[PatentQuality@uspto.gov](mailto:PatentQuality@uspto.gov)**

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Email questions to **PatentQuality@uspto.gov**

# <http://www.uspto.gov/patentquality>

## Patent Quality

Providing high-quality, efficient examination of patent applications is paramount to [our mission](#) at USPTO. To ensure we continue to issue high-quality patents that will fuel innovation well into the future, the [Office of the Deputy Commissioner for Patent Quality](#), along with our partners across the Patents organization, promotes and supports the continuous improvement of patent products, processes and services through collaboration with internal and external stakeholders of the intellectual property community.

### Highlights



#### [Patent Quality Chat](#)

Tune into our January Patent Quality Chat on "Unlocking Open Data for our Patent Customers".

#### [Quality Metrics](#)

See our new metrics approach, categorizing into product, process and perception indicators.

#### [Stakeholder Training on Examination Practice and Procedure \(STEPP\)](#)

Sign up for an upcoming training developed for those interested in a better understanding of the examination process at the USPTO.

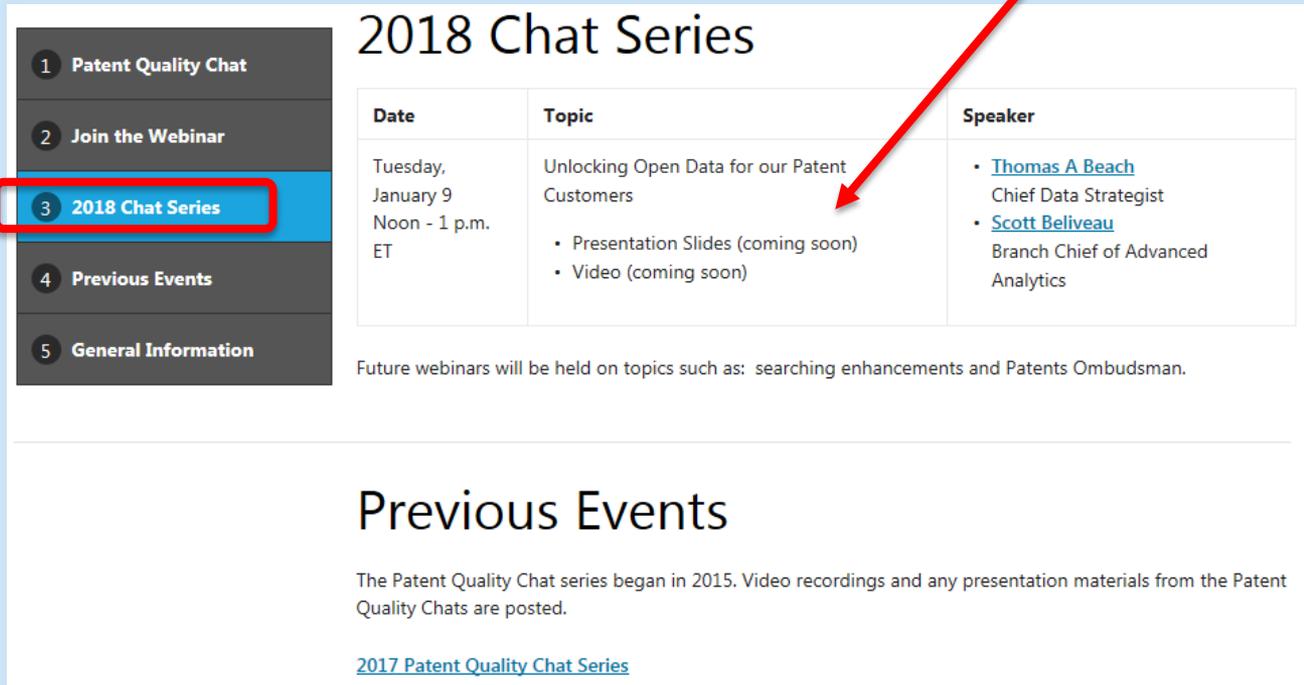
### Areas of Focus

Collaboration with our stakeholders has directed our focus within three areas, where we can best improve patent quality.



Email questions to [PatentQuality@uspto.gov](mailto:PatentQuality@uspto.gov)

# <http://www.uspto.gov/patent/initiatives/patent-quality-chat>



## 2018 Chat Series

Date	Topic	Speaker
Tuesday, January 9 Noon - 1 p.m. ET	Unlocking Open Data for our Patent Customers <ul style="list-style-type: none"><li>• Presentation Slides (coming soon)</li><li>• Video (coming soon)</li></ul>	<ul style="list-style-type: none"><li>• <a href="#">Thomas A Beach</a> Chief Data Strategist</li><li>• <a href="#">Scott Beliveau</a> Branch Chief of Advanced Analytics</li></ul>

Future webinars will be held on topics such as: searching enhancements and Patents Ombudsman.

## Previous Events

The Patent Quality Chat series began in 2015. Video recordings and any presentation materials from the Patent Quality Chats are posted.

[2017 Patent Quality Chat Series](#)

Email questions to [PatentQuality@uspto.gov](mailto:PatentQuality@uspto.gov)

# Patent Quality Chat

## Unlocking Open Data for our Patent Customers

**Thomas Beach**

Chief Data Strategist

**Scott Beliveau**

Branch Chief of Enterprise Advanced Analytics

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# USPTO Data Program Overview

- Open data
  - Publicly available, freely discoverable data that anyone can use, reuse or redistribute easily.
- Big Data
  - A collection of large volumes of data that can be mined for trends, patterns and analysis.



# Why does open data matter?

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- Transparency is empowering
- Leads to more informed applicants - more time being inventive less time searching for our data



# Why does big data matter?

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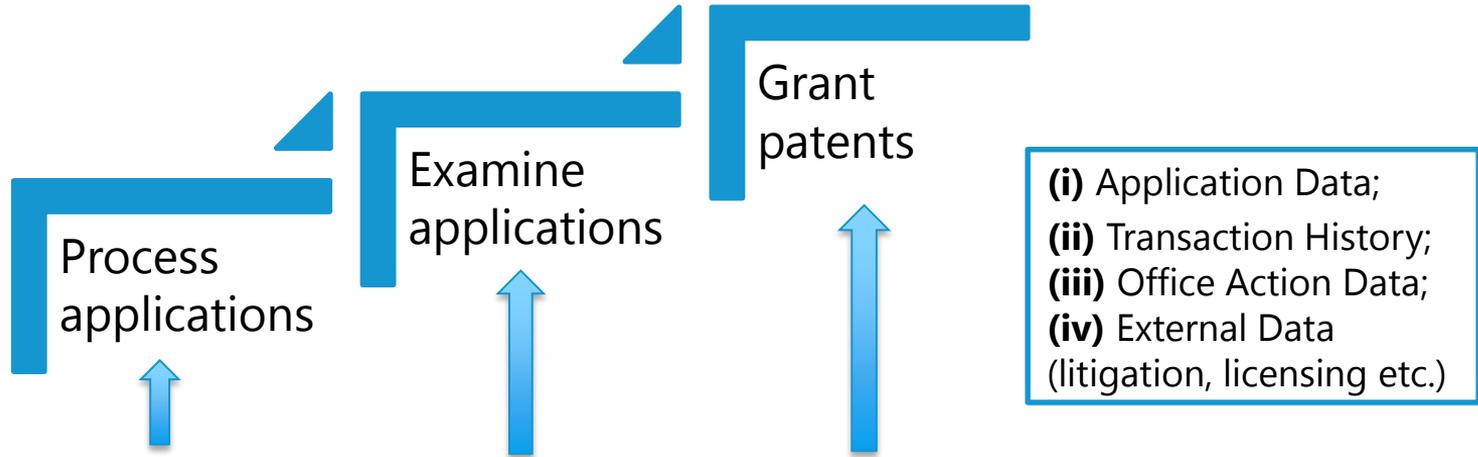
It's not the amount of data that's important. ***It's what organizations do with the data that matters – data driven decision making.***

- Detect anomalies (inconsistencies)
- Identify and prevent problems early
- Measure training impact
- Validate assumptions



# How are we using the data?

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**Big Data Open Analytics Adds Value.** More usage *leads to* continual improvement of the tools that *leads to* greater insights.

# Internal Office Action Dashboard



\* Sample data only

Email questions to [PatentQuality@uspto.gov](mailto:PatentQuality@uspto.gov)

# Internal Office Action Search

Big Data Portal

Search Examples:  
■ Search for Law 112(f): "112(f)"  
■ Search for Art Unit "ArtUnit 3689"-2

Richard Henderson

Dashboard Patent Search Agency Trends

Office Action Search

Example: Search for law 112(f): "112(f)" or for Art Unit 3689~-2

Manage Settings Print

Refine by Clear All

341 Results containing search term: **apple** 5 per page Page 15 of 25

Application NO.	PALM	Invention Title	ART Unit	Action Type	Mailing Date
13144457	🔗	Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et	3902	CTFR	05/07/2017
14185647	🔗	Lorem ipsum dolor sit amet, consectetur adipiscing elit, seolore magna aliqua. Ut enim ad minim	2913	CTFR	04/07/2017
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17756589	🔗	Lorem ipsum dolor sit amet, consectetur	2914	CTFR	01/07/2017

Document ID: 98680132 | [DAV](#) Customer #: 69316 Effective Filing Date: 2010-02-18

Inventor: Richard Henderson Assignee: Jonathon Johnson Inventor Classification: 715/760000

Filing Date: 2011-05-27 Filing Ref No: 333019.01 Foreign Priority Claim: No

Lorem ipsum dolor sit amet, **Apple** adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea **Apple** consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, **Apple** in culpa qui officia deserunt mollit anim **Apple** ect laborum.

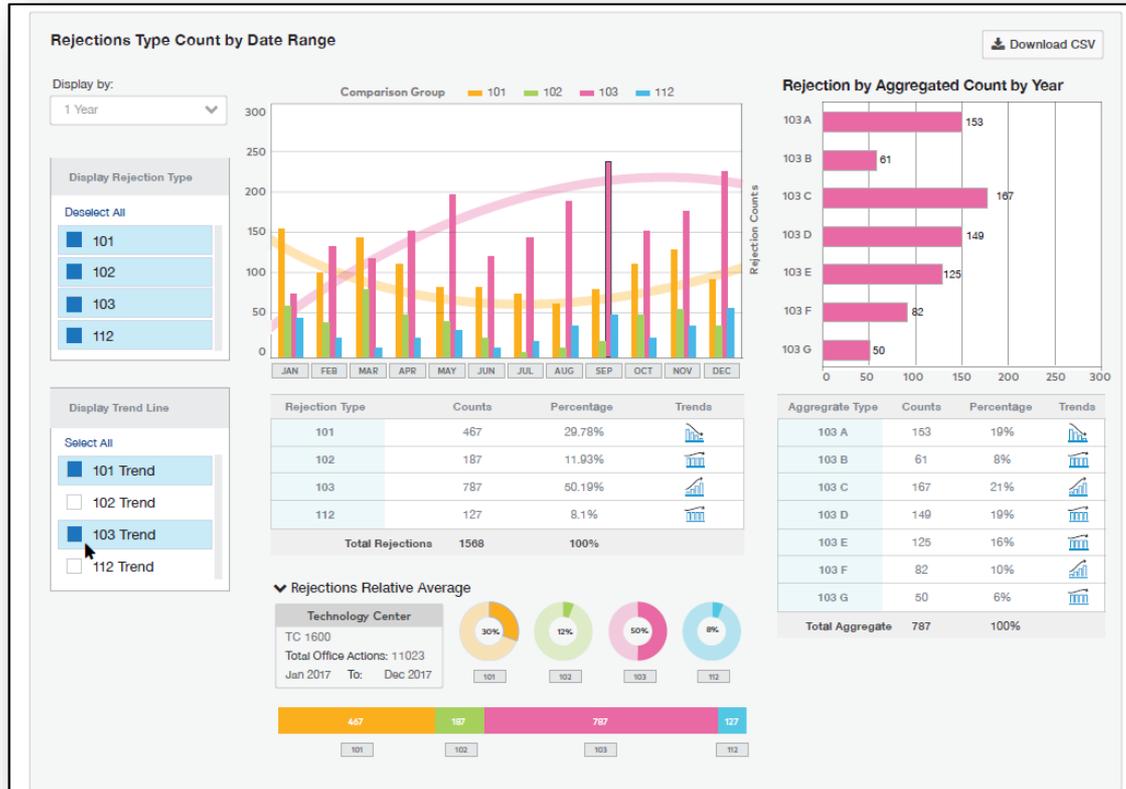
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\* Sample data only

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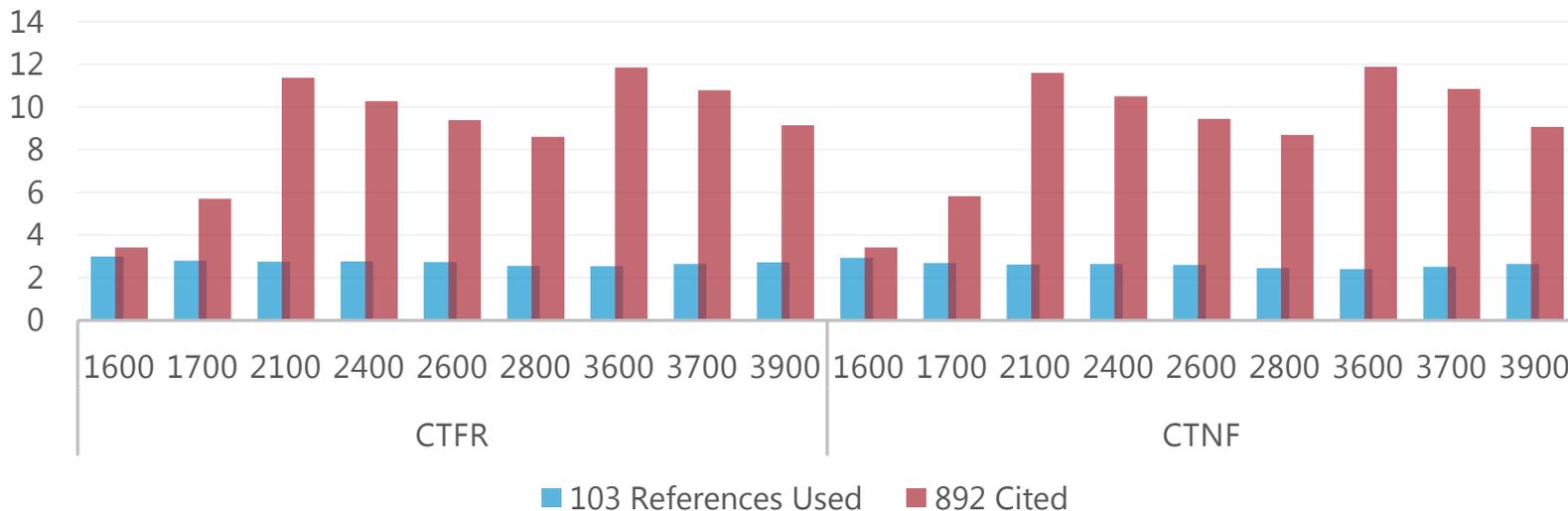
# Internal View of Agency Trends



\* Sample data only

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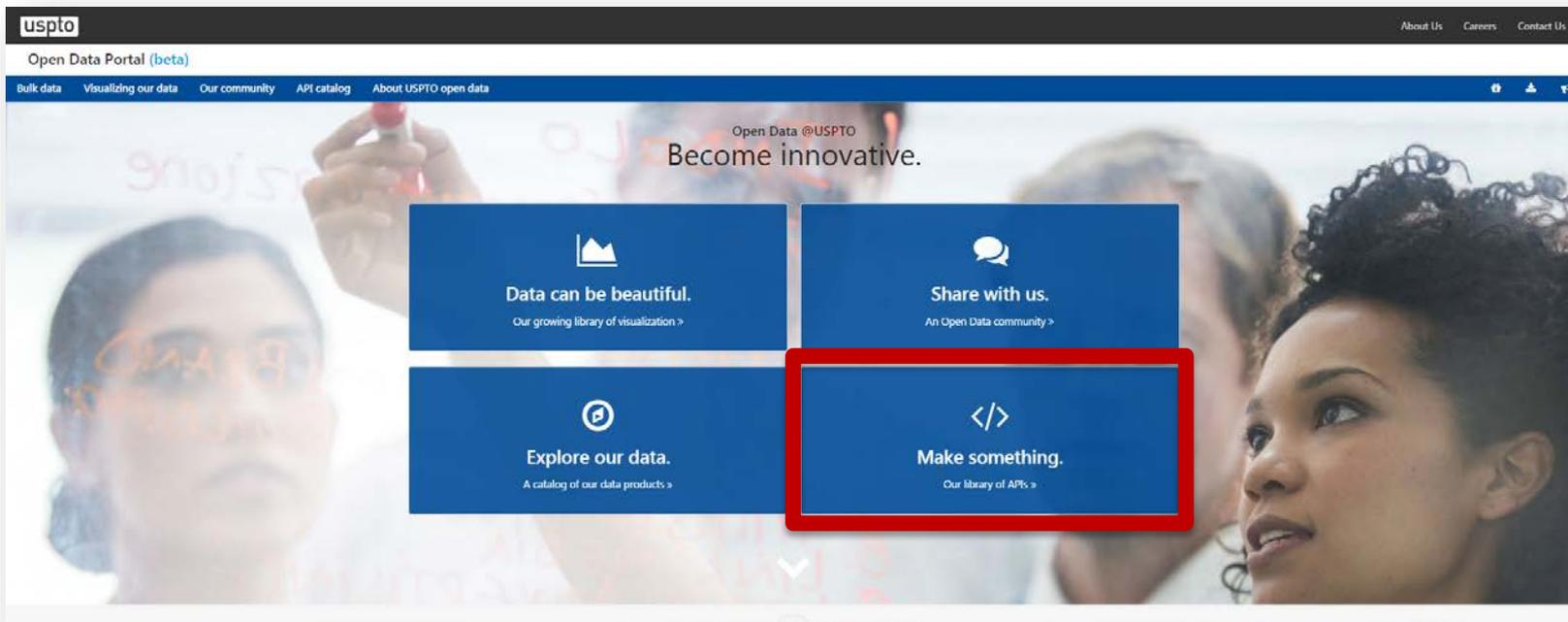
# Internal Study of Cited U.S. Patents



## Data Highlights

- The number of Patent/PG-Pub references used in 103 rejections is relatively consistent across TCs.
- The number of Patent/PG-Pub references cited by examiners varies (on a PTO-892 form) based on Technology Center (1600, 1700, etc.) and whether used in a final rejection (CTFR) or a non-final rejection (CTNF).

# <https://developer.uspto.gov/>



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# Application Programming Interfaces (APIs)

## What is an API?

An API is an Application Programming Interface. It is a set of routines, protocols, and tools for building software and applications. A good API makes it easier to develop a program by providing all the building blocks, which are then put together by the programmer.

For each of the APIs links are provided to the associated syntax or Swagger documentation. Swagger is used to define a standard, language-agnostic interface to REST APIs which allows both humans and computers to discover and understand the capabilities of the service without access to source code, documentation, or through network traffic inspection. Other documentation and a client interface that demonstrates the associated API is also provided.

Show

All APIs

Newest to oldest

### USPTO Office Action Citations API (beta)

**Version:** v1

The United States Patent and Trademark Office (USPTO) *Office Action Research Dataset for Patents* contains...

### USPTO Office Action Rejection API (beta)

**Version:** v1

The United States Patent and Trademark Office (USPTO) *Office Action Research Dataset for Patents* contains detailed...

### Bulk search and download

**Version:** 1.0.0

Bulk data search and download API exposes an API to search published patent grants and applications across various...

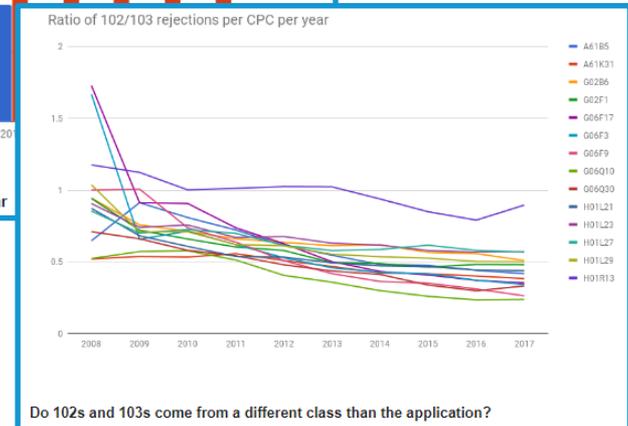
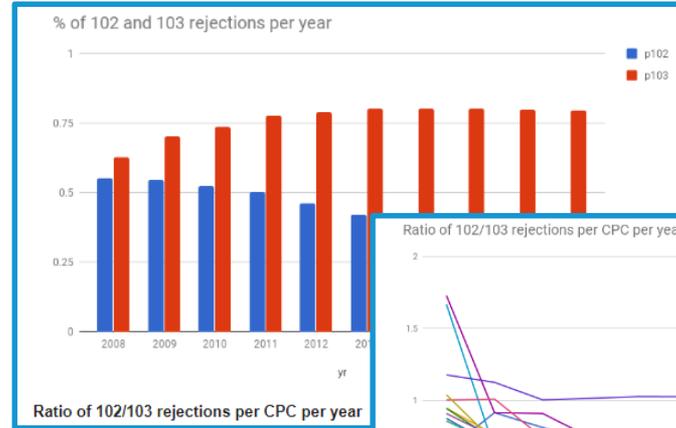
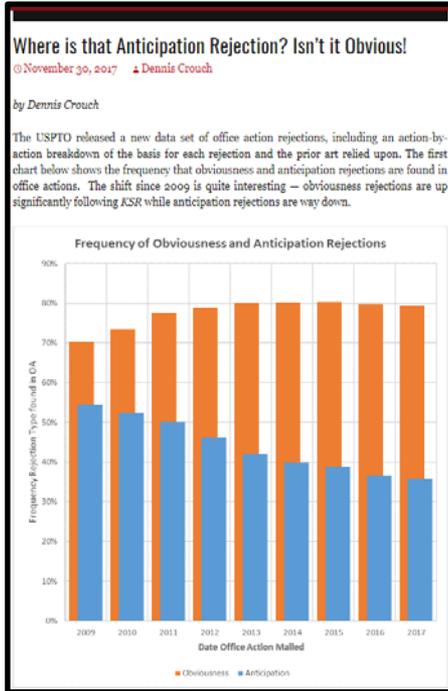
## Created something with our data?

### Let us know

Share your work with the USPTO Open Data Community - use the button below to submit your work.

Share your work! 📄

# ... Public is using it too!

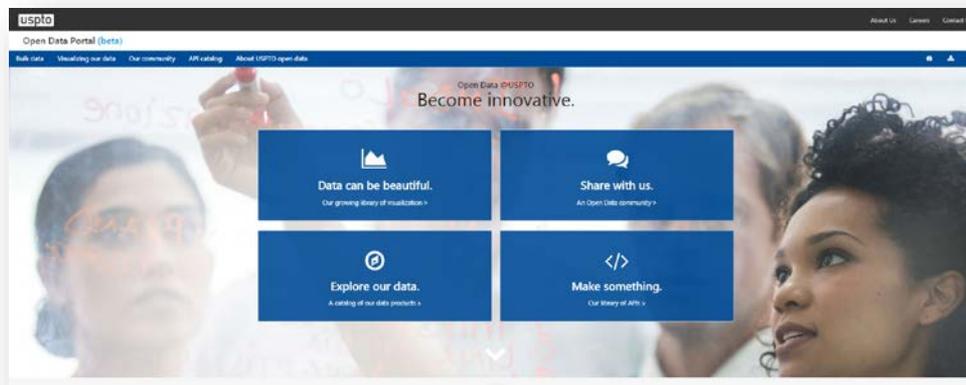
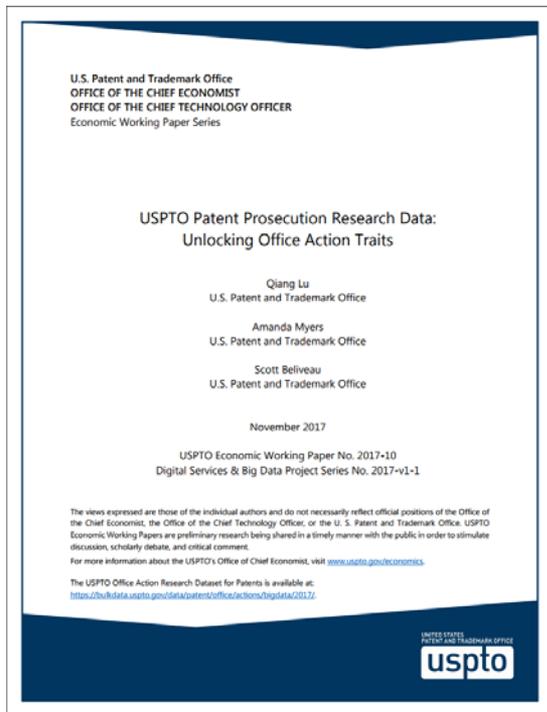


<https://groups.google.com/forum/#!topic/patents-public-data/3McHv1Ukpkk>

<https://patentlyo.com/patent/2017/11/anticipation-rejection-obvious.html>

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# Where to get the data?



<https://developer.uspto.gov/>

<https://ssrn.com/abstract=3024621>



# Traits of Patent Data

## Complexity of Patent Prosecution

- Not all patents have the same prosecution history; they are not statistically unitary due to their unique traits (specifications, claims).

## Changing Landscape

- Court Decisions, Potential Legislation, Patent Trial & Appeal Board, Examination Guidance/Procedures & Policy Changes

## Authoritative Data

- Ensuring the highest level of data quality

# USPTO Data - Summary

- Making patent and trademark data accessible
- Empowering innovation through better tools and information so *the public can make smarter decisions.*
- Promoting the progress of science and useful arts by modernizing ways to explore patent and trademark data.
- Inspiring collaboration and innovation across the government and private sector to grow the economy.



# Let's Chat about Unlocking Open Data for our Patent Customers

**Thomas Beach**

Chief Data Strategist

**Scott Beliveau**

Branch Chief of Enterprise Advanced Analytics

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# Next Patent Quality Chat eMod Update

February 13, 2018

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# Other Patent Quality-Related Events

<https://www.uspto.gov/about-us/events>

<b>January 17</b>	<b>Technology Center 2600 Customer Partnership Meeting</b> (in-person in Alexandria and simulcast in other offices)
<b>January 18</b>	<b>Inventor Info Chat</b> "Overview of the Patent Process" (virtual)
<b>February 13</b>	<b>STEPP Virtual Instructor-Led Training</b> "Claim Interpretation – Preambles" <a href="https://www.uspto.gov/patent/initiatives/stakeholder-training-examination-practice-and-procedure-stepp">https://www.uspto.gov/patent/initiatives/stakeholder-training-examination-practice-and-procedure-stepp</a>

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# Thank you for joining us today!

Patent Quality Chat  
Webinar Series 2018  
January 9, 2018

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