



Quality Insights

## Patentcloud Quality Insights Annotation Report

*USC IP Partnership, LP v. Facebook, Inc.*

WDTX-6-20-cv-00555

Focus on: U.S. Pat. No. 8,645,300

Filing date: Jun. 22, 2020

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Click on a page number to read

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# Map claims to specification and file wrapper

# Map claims to specification - '300

Which claim terms are or are not in the specification?

Claim Analysis > Claim# 1

Find relevant specification content as intrinsic evidence for claim term interpretation

32 Terms Identified in This Claim

[Click to Select Terms](#)



## Select Text

Highlight text from within the claim with your cursor and click on the tooltip "Select Terms" to find references in the Specification.

## Claim# 1

The following claim terms are not literally supported by the specification, which may have rooms for different interpretations.  
"datapoint"

A method for predicting an intent of a visitor to a webpage,

the method com

Select Terms

receiving into an intent engine at least one input parameter from a web browser displaying the webpage;

processing the at least one input parameter in the intent engine to determine at least one inferred intent



**Claim Analysis finds** these terms in the spec:  
"intent engine", "input parameter", "inferred intent",  
as well as other terms that are highlighted in red.

# Map claims to specification - '300

Which claim terms are or are not in the specification?

Select Text

Highlight text from within the claim with your cursor and click on the tooltip "Select Terms" to find references in the Specification.

32 Terms Identified in This Claim [Click to Select Terms](#)

Claim# 1

The following claim terms are not literally supported by the specification, which may have rooms for different interpretations.

'datapoint'

A method for predicting an intent of a visitor to a webpage,

the method comprising:

receiving into an intent engine at least one input parameter from a web browser displaying the webpage;

processing the at least one input parameter in the intent engine to determine at least one inferred intent;

Review the selected claim element and see how it is defined in the patent specification and related figures.

Selected elements of '300 claim 1

Selected elements of '300 in Spec

Figures of '300

Claim Terms

**intent engine**

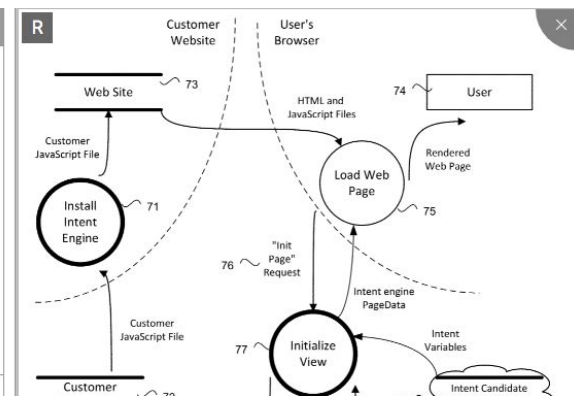
The selected clause includes the following keywords:

**intent** (234)


**engine** (103)

**Content**

[0054] The **intent engine** 20 also displays a continuously updated Destination Candidate 32 based upon the Current **intent** 31. The Destination Candidate 32 may be determined by providing the Current **intent** as a reference to the database 23 to retrieve a ranked list of URLs for that **intent**. In one embodiment, the Destination Candidate may be selected as the highest ranked URL of the Destination Candidate list. In one embodiment, the navigation history of the user may also be incorporated into the selection process so that if the visitor has already visited the highest ranked webpage for the Current **intent**, then the Destination Candidate may be selected as the next highest candidate in the destination list, or the next highest and non-visited destination candidate.



Does the allegedly infringing product element fall within or outside the patent's scope?

 With the claim scope interpretation from **Claim Analysis**, verify your findings against the compliant.

Answer the question:

**Does the alleged Invention element fall within or outside the patent's scope?**

28. For example, the intent engine is not well-understood, routine, or conventional; rather it is an improvement to computing technology that allows for dramatically improved identification of websites for display to a user based on predicting the intent of the user through an intent engine, a capability that did not exist in the prior art.

# Map claims to the file wrapper - '300

Which claim terms are in the file wrapper(i.e. examiner's opinion) ?

## Disclosure Rate by Prior Art

| Claim                                  | Disclosure by Single Reference |            | Disclosure by Multiple References |            | Claim#1  |
|--|--------------------------------|------------|-----------------------------------|------------|--|
|  | Prosecution History            | Post-Grant | Prosecution History               | Post-Grant |  |
| <input checked="" type="checkbox"/> #1 | 84%                            | 84%        | 84%                               | 84%        | A method for predicting an intent of a visitor to a webpage, the method comprising: receiving into an intent engine at least one input parameter from a web browser displaying the webpage; processing the at least one input parameter in the intent engine to determine at least one inferred intent; providing the at least one inferred intent to the web browser to cause the at least one inferred intent to be displayed on the webpage; prompting the visitor to confirm the visitor's intent; receiving a confirmed intent into the intent engine; processing the confirmed intent in the |
| <input checked="" type="checkbox"/> #5 | 64%                            | 78%        | 64%                               | 78%        |  |
| <input type="checkbox"/> #11           | 42%                            | 78%        | 42%                               | 78%        |  |

Review how the asserted claims were disclosed by the prior art found by the examiner during prosecution and post-grant proceedings.

**A higher percentage means more claim elements were disclosed by the prior art.**

Claim Insights Summary Table > Claim Table (Claim# 1) | Select A Claim (1) (5) **switch between claims**

How is each claim element disclosed by cited prior art? Click numbers to find detailed comparison.

**The percentage "%" indicates how many keywords in an element being disclosed by a specific references.**  
[Click](#) to find comprehensive explanation of calculation.

**All** **Prosecution history** **Post-Grant** ☐ Responded prior arts only

| Claims       | Prior Art Ref. (4) |                |           |                 |
|--------------|--------------------|----------------|-----------|-----------------|
|              | US7827487          | US2010/0131835 | US8032506 | OTHER REFERENCE |
| #1.01 (100%) | 100%               | 100%           | 0%        | 100%            |
| #1.02 (N/A)  | N/A                | N/A            | N/A       | N/A             |
| #1.03 (100%) | 0%                 | 100%           | 60%       | 100%            |

Disclosure Rate by Prior Art

# Map claims terms to the file wrapper - '300

Why was this patent granted? Which claims were amended and how did the scope change?

| Claims       | Prior Art Ref. (4) |                |           |
|--------------|--------------------|----------------|-----------|
|              | US7827487          | US2010/0131835 | US8032506 |
| #1.01 (100%) | 100%               | 100%           | 0%        |
| #1.02 (N/A)  | N/A                | N/A            | N/A       |
| #1.03 (100%) | 0%                 | 100%           | 60%       |
| #1.04 (100%) | 40%                | 100%           | 60%       |
| #1.05 (100%) | 66%                | 100%           | 0%        |
| #1.06 (100%) | 100%               | 100%           | 0%        |

All of the limitations of this asserted claim element in '300 were 100% known by Kumar(US2010/0131835).

**Answer the questions:**

**Why was this patent granted?**

Rejection from Examiner

1.01

1.02

1.03

1.04

1.05

1.06

1.07

1.08

1.09

1.10

1.11

1.12

1.13

1.14

Find 1 Result(s)

Filter

Clear All

Prior Art Ref.

Kumar [US2010/0131835]

Rejection

20130611-CTNF

Prosecution History

35 U.S.C. § 102

claim rejections-35 usc § 102 the following is a quotation of the appropriate paragraphs of 35 u.s.c. 102 that form the basis for the rejections under this section made in this office action: a person shall be entitled to a patent unless –(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the united states.

claims 1-5 are rejected under 35 u.s.c. 102(b) as being anticipated by kumar s. et al., us pg pub no.2010/0131835 a1.

regarding claim 1, kumar anticipates: a method for predicting an **intent** of a visitor to a **webpage** (abstract: paragraphs 10-11; wherein it is described the prediction or inferring of a visitor's **intent** to a website that consists of one or more **webpages**), the method comprising: receiving into an **intent engine** at least one **input parameter** from a **web browser** displaying the **webpage**; processing the at least one **input parameter** in the **intent engine** to determine at least one inferred **intent** (abstract: fig. 1, paragraphs 10, 42, 46; wherein it is described an inference **engine** for processing data to infer the **intent** of visitors to a website, that is to say, an **intent engine** is described); and providing the at least one inferred **intent** to the **web browser** to cause the at least one inferred **intent** to be displayed on the **webpage** (paragraphs 110-111; wherein it is now described how tagged **webpages** may be displayed and visible to the user as hyperlinks and may be presented in various web interactive forms that are supported by the browser navigation).

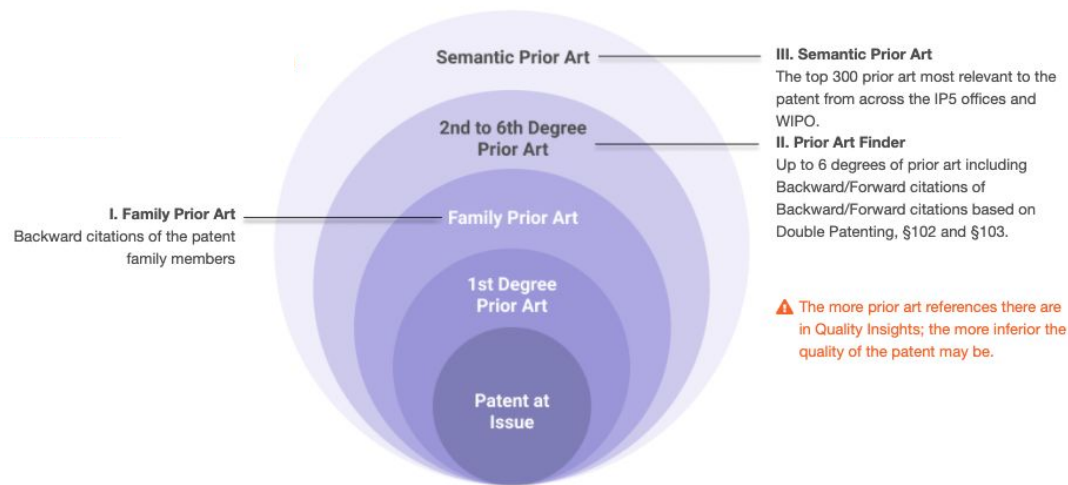
regarding claim 2, kumar anticipates: the method according to claim 1 wherein the at least one **input parameter** comprises an identity of the **webpage** (fig. 3, paragraphs 39-41, 43, 45, 48, 84; wherein it is described how anchor text is tagged and associated with a url/uri that identifies and leads to that tagged **webpage**, and it is further described how the monitoring/data gathering system captures the url and title of **webpages** that a user visits).

regarding claim 3, kumar anticipates: the method according to claim 1 wherein processing the at least one **input parameter** comprises determining a ranked list of **intents** for the **webpage** (paragraphs 46, 68-70; wherein it is described how **webpages** can be ordered or ranked based on a g-score that quantifies the visitor's **intent** to a **webpage**).

regarding claim 4, kumar anticipates: the method according to claim 3 comprising: selecting the highest ranked **intent** for the **webpage**; and causing at least the highest ranked **intent** to be displayed on the **webpage** in the **web browser** (abstract: paragraph 45, 111, 113; wherein it is described how the system may display the tag tree, that represents the hierarchy of ranked **webpages** of the website).



# How does Quality Insights generate prior art?



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# Prior Art Finder

# Prior Art Finder for '300

Review cited and citing patents of '300 from the first to the sixth degree

Filter by:  
 Applicability  
 Legal Basis (102 or 103)  
 Patent Office  
 Legal Status

1st Degree Art  
**5**

2nd Degree Art  
**65**

N Degree Art  
**85**

**N Degree Art**  
 Extend forward/backward citations from the Second Degree Art  
 Discover prior art's similarity with claim chart format in seconds !

KEEP Mode
 

Ranked By : Legal Basis (§102 first)

**US8645300B1**

1st Degree (5)

2nd Degree (20)

3rd Degree (20)

4th Degree (20)

5th Degree (20)

6th Degree

**6th Degree List**

|                          | # | Patent No.                      | Title  | Legal Status    | Appl. Date | Pub./Issue Date | Assignee (Std) | Applicability   |
|--------------------------|---|---------------------------------|--|-----------------|------------|-----------------|----------------|---|
| <input type="checkbox"/> | 1 | <a href="#">US20040109058A1</a> | Commercial product routing system with vi...   | PGPub - Granted | 2003-11-26 | 2004-06-10      | KATZ RONALD A  | (Pre-AIA) § 102(a)<br>(Pre-AIA) § 102(b)<br>(Pre-AIA) § 102(e)(1) |
| <input type="checkbox"/> | 2 | <a href="#">US8207998B1</a>     | Commercial product routing system with vi...   | Lapsed          | 2000-02-17 | 2012-06-26      | TELEBUYER LLC  | (Pre-AIA) § 102(e)(2)   |
| <input type="checkbox"/> | 3 | <a href="#">US20060215029A1</a> | Commercial product routing system with vi...   | PGPub - Granted | 2003-10-16 | 2006-09-28      | KATZ RONALD A  | (Pre-AIA) § 102(a)<br>(Pre-AIA) § 102(b)<br>(Pre-AIA) § 102(e)(1) |
| <input type="checkbox"/> | 4 | <a href="#">US20040109547A1</a> | Commercial product routing system with vi...   | PGPub - Granted | 2003-11-26 | 2004-06-10      | KATZ RONALD A  | (Pre-AIA) § 102(a)<br>(Pre-AIA) § 102(b)<br>(Pre-AIA) § 102(e)(1) |
| <input type="checkbox"/> | 5 | <a href="#">US7283974B2</a>     | Methods and apparatus for intelligent selec... | Lapsed          | 2002-11-12 | 2007-10-16      | WEST CORP      | (Pre-AIA) § 102(a)<br>(Pre-AIA) § 102(b)<br>(Pre-AIA) § 102(e)(2) |

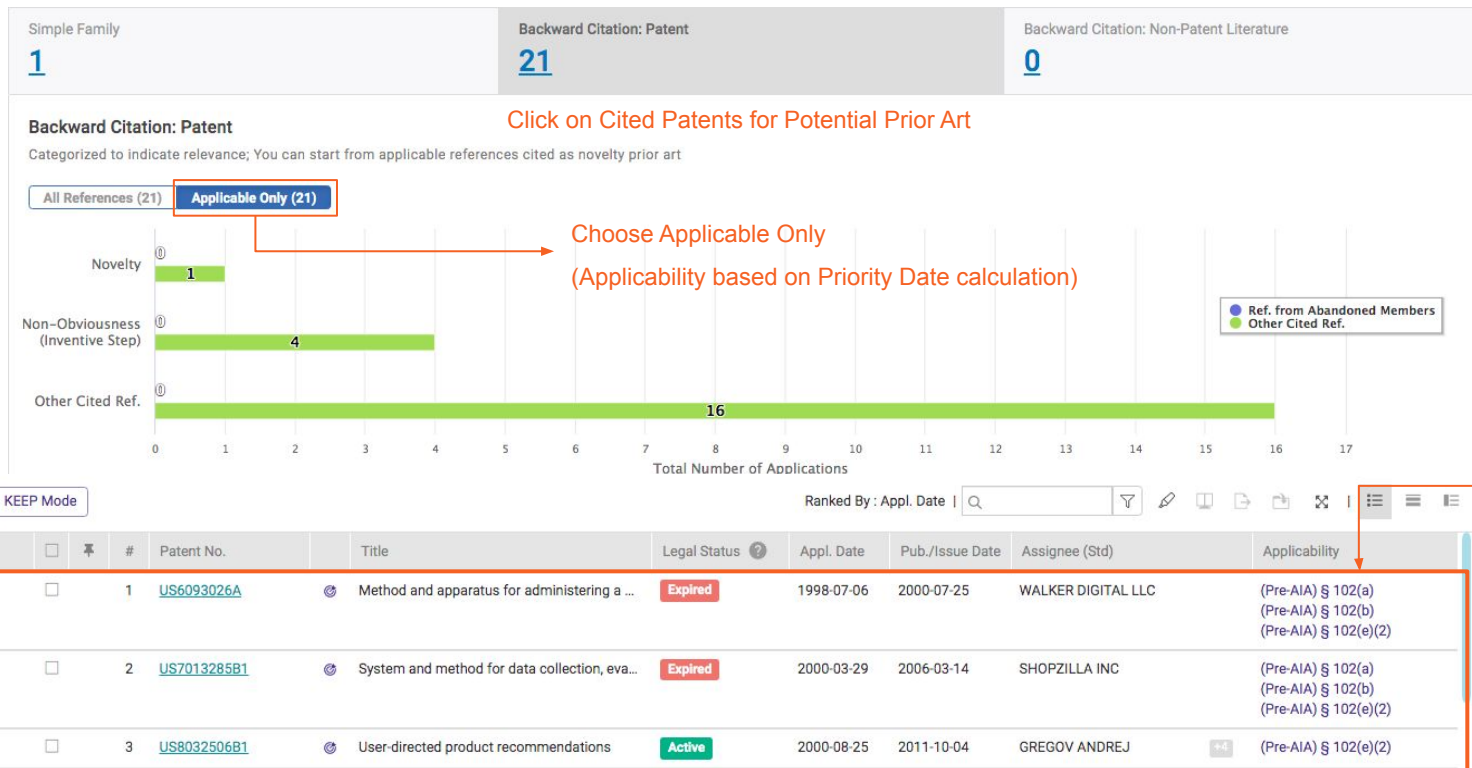
Up to the 6th Degree List

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# Family Prior Art

# Family Prior Art of '300

Review prior art cited by and cited against the family counterparts when available



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# Semantic Prior Art

# Semantic Prior Art of '300

Review potential prior art ranked by concept similarity

Across IP5 and WIPO thanks to Patentcloud's proprietary algorithm

Most Relevant US, EP, JP, KR, CN & WO potential prior art references based on **Semantic Similarity** with a patent's first claim and abstract. [Change Scope](#) Select claim text or enter the desired text/keywords

Discover prior art's similarity with claim chart format in seconds ! Prior art references found (within the designated scope) that are deemed as having high semantic similarity will be starred with a ★

KEEP Mode 4 are of high semantic similarity

Ranked By : Relevance

| <input type="checkbox"/> | <input type="checkbox"/> | Ranking | Patent No.                      | <input type="checkbox"/> | ★ | Title  | Legal Status    | Appl. Date | Pub./Issue Date | Assignee (Std)            | Applicability   |
|--------------------------|--------------------------|---------|---------------------------------|--------------------------|---|--|-----------------|------------|-----------------|---------------------------|---|
| <input type="checkbox"/> |                          | 1       | <a href="#">US20100131835A1</a> | <input type="checkbox"/> | ★ | SYSTEM AND METHODS FOR INFERRING I...            | PGPub - Granted | 2009-11-13 | 2010-05-27      | KUMAR SRIHARI             | (Pre-AIA) § 102(a)<br>(Pre-AIA) § 102(b)<br>(Pre-AIA) § 102(e)(1) |
| <input type="checkbox"/> |                          | 2       | <a href="#">WO2010/059978A2</a> | <input type="checkbox"/> | ★ | SYSTEM AND METHODS FOR INFERRING I...            | Abandoned       | 2009-11-20 | 2010-05-27      | MARKETFORCEONE INC        | (Pre-AIA) § 102(a)<br>(Pre-AIA) § 102(b)<br>(Pre-AIA) § 102(e)(1) |
| <input type="checkbox"/> |                          | 3       | <a href="#">WO2010/059978A3</a> | <input type="checkbox"/> | ★ | SYSTEM AND METHODS FOR INFERRING I...            | Abandoned       | 2009-11-20 | 2010-08-19      | MARKETFORCEONE INC        | (Pre-AIA) § 102(a)<br>(Pre-AIA) § 102(e)(1)                       |
| <input type="checkbox"/> |                          | 4       | <a href="#">US10380634B2</a>    | <input type="checkbox"/> | ★ | Intent inference of website visitors and sale... | Active          | 2009-11-13 | 2019-08-13      | CALLIDUS SOFTWARE INC     | (Pre-AIA) § 102(e)(2)   |
| <input type="checkbox"/> |                          | 5       | <a href="#">US20120215664A1</a> | <input type="checkbox"/> |   | EPURCHASE MODEL                                  | Abandoned       | 2011-02-17 | 2012-08-23      | EBAY INC                  | (Pre-AIA) § 102(e)(1)   |
| <input type="checkbox"/> |                          | 6       | <a href="#">US20090210806A1</a> | <input type="checkbox"/> |   | METHOD AND SYSTEM FOR PREDICTIVE B...            | PGPub - Granted | 2008-02-20 | 2009-08-20      | INTERNATIONAL BUSINESS... | (Pre-AIA) § 102(a)<br>(Pre-AIA) § 102(b)<br>(Pre-AIA) § 102(e)(1) |
| <input type="checkbox"/> |                          | 7       | <a href="#">US20110320440A1</a> | <input type="checkbox"/> |   | PLACEMENT OF SEARCH RESULTS USING ...            | PGPub - Granted | 2010-06-23 | 2011-12-29      | MICROSOFT CORP            | (Pre-AIA) § 102(e)(1)   |
| <input type="checkbox"/> |                          | 8       | <a href="#">US20120271805A1</a> | <input type="checkbox"/> |   | PREDICTIVELY SUGGESTING WEBSITES                 | PGPub - Granted | 2011-04-19 | 2012-10-25      | MICROSOFT CORP            | (Pre-AIA) § 102(e)(1)   |

# Semantic Prior Art of '300

Review potential prior art ranked by concept similarity

**US8645300B1** 

System and method for intent data processing

Overview

History

Claim Analysis

Claim Insights

Family Prior Art

Prior Art Finder

**Semantic Prior Art**

File Wrapper Search

 About Semantic Prior Art

## Semantic Prior Art

Most Relevant US, EP, JP, KR, CN & WO potential prior art references based on [Semantic Similarity](#) within the scope below. [Reset to Default](#)

Enter text to start searching for semantic prior art (English only)

+ Add text from claims

Submit

 Discover prior art's similarity with claim chart format in s

Add text from claims

×

Select A Claim

1

2

3

4

5

6

7

8

9

10

Next 10

A method for predicting an intent of a visitor to a webpage, the method comprising: receiving into an intent engine at least one input parameter from a web browser displaying the webpage; processing the at least one input parameter in the intent engine to determine at least one inferred intent; providing the at least one inferred intent to the web browser to cause the at least one inferred intent to be displayed on the webpage; prompting the visitor to confirm the visitor's intent; receiving a confirmed intent into the intent engine; processing the confirmed intent in the intent engine to

Add



adding text from claims to find more related Prior Art



---

# Comparison tools

# Prior Art Comparison (claim chart format)

What does this prior art say about the critical elements?

Find **86** Result(s) Disclosure Rate : **60%**

Disclosure Rate of Prior Art

### Claim Element

#1.03 receiving into an intent engine at least one input parameter from a web browser displaying the webpage;

**Keyword List** ⓘ

intent
(154)
FW
PA

Intent

intent&#x2014;Macbook

Intents

engine
(54)
FW
PA

engines

webpage
(5)
FW
PA

Webpage

### US10380634B2 Content

Abstract

A system for inferring intent of visitors to a Website has a visitor - tracking application executing from a digital medium coupled to a server hosting the Website , the server connected to a repository adapted to store data about visitor behavior , and an inference engine for processing the data to infer the intent of visitors . Visitor behavior relative to links is tracked , and intent of a visitor is inferred from one or both , or a combination of analysis of the behavior and deducing meaning for anchor text of links selected.

Claims

**Claim# 1** A method comprising : accessing a behavior of a visitor interacting with a website accessed via Internet and a sequence thereof , using an input mechanism to interact with a graphical user interface rendered on a display device , wherein the behavior includes interactions with a first anchor text of the website wherein the first anchor text remains unselected , and wherein the behavior includes interactions with a second anchor text of the website wherein the second anchor text is associated with a hyperlink that is selected , wherein a tag associated with selection of the second anchor text is generated and wherein the tag is associated with the website and user interaction thereof ; automatically determining an intent of the visitor based on the behavior , wherein the determining is further based on a combination of semantic , syntactic , and statistics associated with the visitor interacting with the first anchor text and the second anchor text , and wherein the determining is by comparing a hierarchical structure of anchor texts to hierarchical structure of the website ; and outputting the intent of the visitor , a level of intent of the visitor , supporting data

Answer the question:

What does this prior art say about the Claim elements: “intent”, “engine” ?

Discover prior art similarity with keywords (includes keyword stemming) mapped to the selected prior art reference Abstract, Claims, and Specification.

# Prior Art Comparison (sample output)

Easily generate a table like below

| Claim |   | Claim-Term Interpretation       | Semantic Prior Art - '634 | 3rd Degree Citation Prior Art - B |
|-------|---|---------------------------------|---------------------------|-----------------------------------|
| 1     | A method for predicting an intent of a visitor to a webpage,  | Refer to Claim Analysis results | 100%                      | .....                             |
|       | the method comprising:  | .....                           | N/A                       | .....                             |
|       | receiving into an intent engine at least one input parameter from a web browser displaying the webpage;     | .....                           | 60%                       |                                   |
|       | processing the at least one input parameter in the intent engine to determine at least one inferred intent; | .....                           | 80%                       |                                   |
|       | .....the inferred intent and the received rank.   | .....                           | .....                     |                                   |

System-identified keywords and key phrases  
(highlighting of other keywords is available)

Results from claim to specification  
and file wrapper mapping

Results from prior art comparison  
by claim element

---

# Prior art downloads

# Prior art downloads

Select all

Export

| # | Patent No.    | Title  | Abandoned | 1994-05-31 | 1993-02-23 | NEC CORP | (Pre-AIA) § 102(a) | (Pre-AIA) § 102(b) | (Pre-AIA) § 102(e)(1) | (Pre-AIA) § 102(e)(2) |
|---|---------------|--|-----------|------------|------------|----------|--------------------|--------------------|-----------------------|-----------------------|
| 1 | CN1247662A    | Dual use spe                                   |           |            |            |          |                    |                    |                       |                       |
| 2 | EP0998105B1   | Mobile teleph                                  |           |            |            |          |                    |                    |                       |                       |
| 3 | JPH09-036932A | EXTERNAL R                                     |           |            |            |          |                    |                    |                       |                       |
| 4 | JPH11-055358A | MOBILE RAD                                     |           |            |            |          |                    |                    |                       |                       |
| 5 | US5317622     | Ringin circuit for use in a telephone set f... | Abandoned | 1994-05-31 | 1993-02-23 | NEC CORP | (Pre-AIA) § 102(a) | (Pre-AIA) § 102(b) | (Pre-AIA) § 102(e)(1) | (Pre-AIA) § 102(e)(2) |



Download patent data in Excel or PDF format for Family Prior Art, Second Degree Prior Art, and/or Semantic Prior Art.

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# Prosecution and PTAB History

## Key Events

# Key Events - '300

1 Prosecution & 2 Post-Grant

Event History

**3**

Family Status

**1** Applications

Prior Art Status

**392** Applications / **2** NPL References

Event History | 1 Prosecution History / 2 Post-Grant

Validity challenges to a patent in its prosecution history and post-grant events

# of Family Counterparts and Legal Status

# of Highly Relevant Prior Art References



| Legend        |                      |
|---------------|----------------------|
| Document Code | Document Description |
| CTNF          | Non-final rejection  |
| CLM           | Claims               |
| REM           | Remarks              |

Timeline of Prosecution:



# Key Events - '300

## Prosecution History

**13/186787 Prior Art Ref.** | 1 Ref.

Check prior art cited and the legal basis of these challenges

**Double Patenting** | 0 Ref.

**§ 102** | 1 Ref.

[US20100131835](#)  
Kumar

**§ 103** | 0 Ref.

Clickable events for original OAs and their OCR version when available.

**Summary of 13/186787 History** | 4 Event(s)

Direct links to Grounds, Claims Highlighted and Prior Art Details

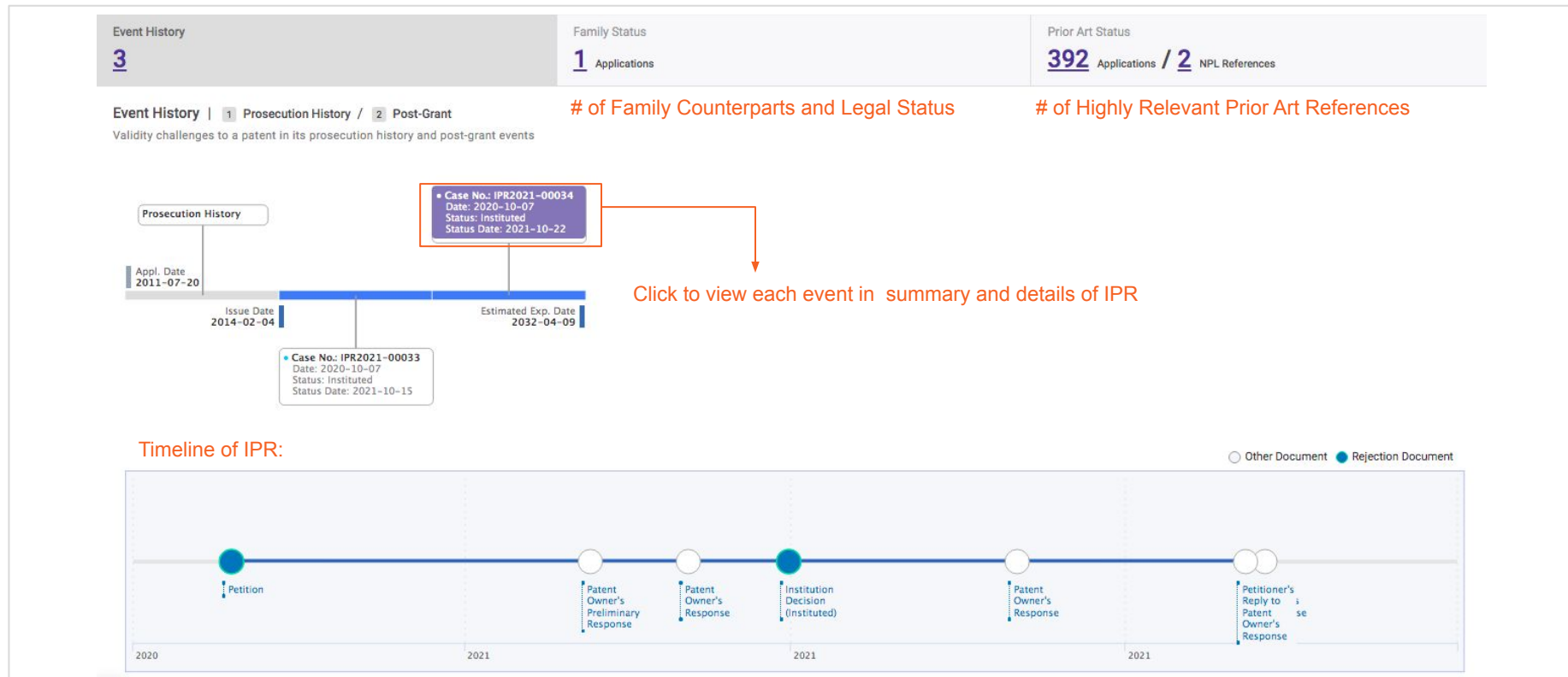
Data Last Updated on: 2021-11-13

| Descriptions (Code)                                    | Date                       | Prior Art Ref.   |
|--|----------------------------|--|
| Notice of Allowance (NOA)                              | 2013-09-27                 |  |
| Applicant Arguments/Remarks Made in an Amendment (REM) | 2013-09-11                 |  |
| Applicant Arguments/Remarks Made in an Amendment (REM) | 2018-01-02                 |  |
| <a href="#">Claims (CLM)</a>                           |                            |  |
| Non-Final Rejection (CTNF)                             | 2017-08-30                 | Grounds 1 ^  |
| Legal Basis  | Claims                     | Prior Art Ref.   |
| 35 U.S.C. § 103  | claim 34,35,36,37,38,39,40 | Seela US5844106 (1st)<br>Mathies US5728528<br>Church US6432360 |
| Applicant Arguments/Remarks Made in an Amendment (REM) | 2017-08-03                 |  |
| <a href="#">Claims (CLM)</a>                           |                            |  |



# Key Events - '300

Post-Grant



# Key Events - '300

Post-Grant

IPR2021-00034 Prior Art Ref. | 3 Ref.

Check prior art cited and the legal basis of these challenges

Double Patenting

0 Ref.

§ 102

0 Ref.

§ 103

3 Ref.

[US7827487 \(1st\)](#)  
Nickerson

[US20080235204 \(1st\)](#)  
Dai

[US8032506 \(1st\)](#)  
Gregov

## Order

ORDERED that, pursuant to 35 U.S.C. § 314(a), an inter partes review of claims 5–10 of the '300 patent is instituted with respect to all grounds set forth in the Petition; and  
FURTHER ORDERED that, pursuant to 35 U.S.C. § 314(c) and

Summary of IPR2021-00034 History | 7 Event(s)

Clickable events for original OAs and their OCR version when available.

Direct links to Grounds,  
Claims Highlighted and Prior Art Details

Data Last Updated on: 2021-12-08

| Descriptions (Code)                           | Date  | Prior Art Ref.  |
|---|--|---|
| Patent Owner's Response                       | 2021-10-22   |   |
| Petitioner's Reply to Patent Owner's Response | 2021-10-15   |   |
| Patent Owner's Response                       | 2021-07-23   |   |
| Institution Decision (Instituted)             | 2021-04-30   | Grounds 3  |
| Patent Owner's Response                       | 2021-03-24   |   |
| Patent Owner's Preliminary Response           | 2021-02-16   |   |
| Petition                                      | 2020-10-07   | Grounds 3  |

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# Prosecution and PTAB History Search

# Patent File Wrapper Search

 Directly discover details in the prosecution history and post-grant proceeding across all documents via a keyword search.

## Cross-Document Search

Enter keyword to find documents including specific legal basis or specific claim terms

[① About File Wrapper Search](#)

touch sensor



## Rejections, Remarks, and Notice of Allowance in Prosecution History | 13 Records

| <input type="checkbox"/> Descriptions (Code)  | Party     | Date  |
|--|-----------|--|
| <input type="checkbox"/> Notice of Allowance (NOA)   | USPTO     | 2015-09-24   |
| <input type="checkbox"/> Applicant Arguments/Remarks Made in an Amendment (REM)  | Applicant | 2015-06-19   |
| <input type="checkbox"/> Non-Final Rejection (CTNF)  | USPTO     | 2015-03-19   |
| <input type="checkbox"/> Request for Continued Examination (RCEX)  | Applicant | 2015-03-03   |
| <input type="checkbox"/> Applicant Arguments/Remarks Made in an Amendment (REM)  | Applicant | 2015-03-03   |
| <input type="checkbox"/> Final Rejection (CTFR)  | USPTO     | 2014-11-03   |
| <input type="checkbox"/> Applicant Arguments/Remarks Made in an Amendment (REM)  | Applicant | 2014-10-15   |
| <input type="checkbox"/> Non-Final Rejection (CTNF)  | USPTO     | 2014-07-15   |
| <input type="checkbox"/> Request for Continued Examination (RCEX)  | Applicant | 2014-06-26   |
| <input type="checkbox"/> Applicant Arguments/Remarks Made in an Amendment (REM)  | Applicant | 2014-06-26   |
| <input type="checkbox"/> Final Rejection (CTFR)  | USPTO     | 2014-02-26   |
| <input type="checkbox"/> Applicant Arguments/Remarks Made in an Amendment (REM)  | Applicant | 2014-02-07   |
| <input type="checkbox"/> Non-Final Rejection (CTNF)  | USPTO     | 2013-11-07   |

Data Last Updated on 2021-04-08

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# Prosecution and PTAB History PDF Downloads


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| <input type="checkbox"/> Notice of Allowance (NOA)   | USPTO     | 2015-09-24   |
| <input type="checkbox"/> Applicant Arguments/Remarks Made in an Amendment (REM)  | Applicant | 2015-06-19   |
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| <input type="checkbox"/> Final Rejection (CTFR)  | USPTO     | 2014-11-03   |
| <input type="checkbox"/> Applicant Arguments/Remarks Made in an Amendment (REM)  | Applicant | 2014-10-15   |
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| <input type="checkbox"/> Request for Continued Examination (RCEX)  | Applicant | 2014-06-26   |
| <input type="checkbox"/> Applicant Arguments/Remarks Made in an Amendment (REM)  | Applicant | 2014-06-26   |
| <input type="checkbox"/> Final Rejection (CTFR)  | USPTO     | 2014-02-26   |
| <input type="checkbox"/> Applicant Arguments/Remarks Made in an Amendment (REM)  | Applicant | 2014-02-07   |
| <input type="checkbox"/> Non-Final Rejection (CTNF)  | USPTO     | 2013-11-07   |

Data Last Updated on 2021-04-08

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# Prosecution and PTAB History Side-by-side PDF and OCR

# Side by Side: PDF & OCR



Conduct a keyword search in a single document to identify the claim scope quickly and easily. You can even search additional claim terms within rejections.

**Keywords (2)**

Select a Keyword Set

☐ sensor (23)

☐ flexible substrate (1)

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U992631182 - CTNF (2015-03-19)

13/284,674 6 / 18 90%

Application/Control Number: 13/284,674 Page 5  
Art Unit: 2867

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the touch panel taught by Grant by adding drive or sense electrodes made of flexible conductive material as taught by Hotelling since the sensor traces provide level shifting from a low voltage level to a higher voltage level, thus providing a better signal-to-noise ratio for improved noise reduction purposes while the drive traces provide shielding for the sense traces.

Neither Grant nor Hotelling specifically teach wherein the flexible conductive material of the drive or sense electrodes comprises first and second conductive lines that electrically contact one another at an intersection.

However, Gray does teach wherein the flexible conductive material of the drive or sense electrodes comprises first and second conductive lines that electrically contact one another at an intersection (Fig. 2; [0063]: **A number of conductors forming rows and columns of a conductive pattern (e.g., indium tin oxide (ITO)) may be deposited on a substrate composed of polyester or other material on one or more layers of the touchscreen... the row and column oriented conductors may be disposed on the same layer...**; See also Miller US 5,089,672; Col. 2, lines 11-16; Col. 5, lines 1-20; Col. 5, lines 61-68).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the combination of Grant and Hotelling by including the conductive lines (rows and columns) taught by Gray for the purpose of "providing paths for signals traveling through the touchscreen" (See Gray; Abstract).

103(a) as being unpatentable over Grant et al. US 2008/0303782 A1 (previously cited and hereinafter Hotelling). In further View of Gray et al. US 2010/0045814 (previously cited and hereinafter Gray) and in further View of Frey et al. US 2009/0219257 (previously cited and hereinafter Frey).

Regarding claim 1, Grant does teach an apparatus (Abstract) comprising:  
a substantially flexible substrate (Abstract: flexible touch sensitive surface); and  
a touch [0003], [0005], [0006], [0022], [0023], [0027], and [0071], e.g., flexible surface, flexible circuitry, and capacitance touch [0003] which must be conductive to receive user input) disposed on the substantially flexible substrate ( see at least Figs. 1A-1C; [0009-0011], configured to bend with the substantially flexible substrate (Figs. 1A-1C, 3 and the corresponding descriptions; [0003]).

Grant does not specifically teach the touch [0003] comprising drive or sense electrodes made of flexible conductive material.

However, Hotelling does teach a touch [0003] (Fig. 2a, 5 and the corresponding descriptions, and the Summary of the Invention, i.e., a touch [0003] comprises of row and column traces made of copper) comprising drive or sense electrodes (see at least Figs. 1 and 2a; [0008, 0030-0033]; claim 9; sense traces formed on a first side of a dielectric substrate; and drive traces formed on a second side of the substrate) made of flexible conductive material ([0008]; traces made of copper or other highly conductive metals running along the edge of the substrate).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the touch panel taught by Grant by adding drive or sense electrodes made of flexible conductive material as taught by Hotelling since the [0003] traces provide level shifting from a low voltage level to a higher voltage level, thus providing a better signal-to-noise ratio for improved noise reduction purposes while the drive traces provide shielding for the sense traces.

Neither Grant nor Hotelling specifically teach wherein the flexible conductive material of the drive or sense electrodes comprises first and second conductive lines that electrically contact one another at an intersection.





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