



Quality Insights

Patentcloud Quality Insights Annotation Report

Estech Systems IP, LLC v. Toyota Motor Corporation et al
EDTX-2-22-cv-00001

Focus on: U.S. Pat. No. **8,391,298**

Filing date: Jan. 10, 2022

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Claim Construction and § 112 Invalidity

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Map claims to specification and file wrapper

Map claims to specification - '298

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

30 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.

"handling"

An **information handling** apparatus comprising:

a first **local area network** ("LAN");

a second LAN;

a **wide area network** ("WAN") coupling the first LAN to the second LAN;

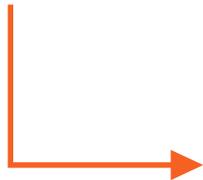
Claim Analysis finds these terms in the spec: "local area network", "LAN", "wide area network", "WAN", as well as other terms that are highlighted in red.

Map claims to specification - '298

Which claim terms are or are not in the specification?

Select Text	Claim# 1
Highlight text from within the claim with your cursor and click on the tooltip "Select Terms" to find references in the Specification.	The following claim terms are not literally supported by the specification, which may have rooms for different interpretations. "handling"
	An information handling system comprising: a first local area network ("LAN"); a second LAN; a wide area network ("WAN") coupling the first LAN to the second LAN; a third LAN coupled to the first and second LANs via the WAN;

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



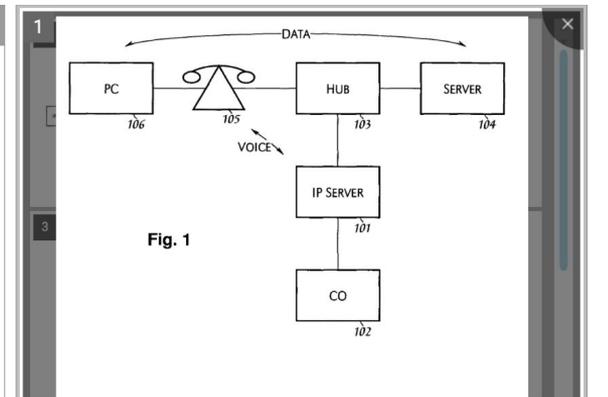
Selected elements of '298 claim 1

Claim Terms
LAN
The selected clause includes the following keywords: LAN (30)

Selected elements of '298 in Spec

Content
[0028] FIG. 1 illustrates an information processing system configured in accordance with the present invention. FIG. 1 essentially illustrates a local area network ("LAN"), which in one configuration could be implemented with an Ethernet protocol. However, the present invention is not limited to use with any particular data transfer protocol. Workstation PC 106, network hub 103 and server 104 coupled to each other illustrate a typical LAN configuration where data is communicated between the workstation 106 and the server 104. Naturally, other workstations and servers could also be coupled to the LAN through hub 103, including the use of additional hubs. Hub 103 may be a 10 Base T or 10/100 Base T Ethernet hub. In an alternative embodiment, the hub 103 and server 104 may be implemented in the same data processing system. Herein, the term "workstation" can refer to any network device that can either receive data from a

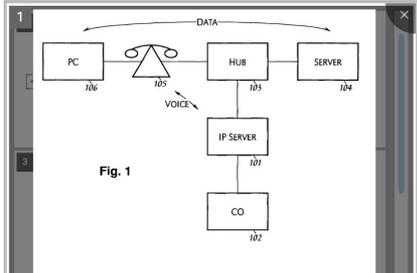
Figures of '298



Map claims to specification - '298

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

Claim Terms	Content
<p>LAN</p> <p>The selected clause includes the following keywords:</p> <p>LAN (30)</p>	<p>[0028] FIG. 1 illustrates an information processing system configured in accordance with the present invention. FIG. 1 essentially illustrates a local area network ("LAN"), which in one configuration could be implemented with an Ethernet protocol. However, the present invention is not limited to use with any particular data transfer protocol. Workstation PC 106, network hub 103 and server 104 coupled to each other illustrate a typical LAN configuration where data is communicated between the workstation 106 and the server 104. Naturally, other workstations and servers could also be coupled to the LAN through hub 103, including the use of additional hubs. Hub 103 may be a 10 Base T or 10/100 Base T Ethernet hub. In an alternative embodiment, the hub 103 and server 104 may be implemented in the same data processing system. Herein, the term "workstation" can refer</p>



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?



- 31. The Accused Instrumentalities use first, second, and third LANs that are coupled with a WAN.
- 32. The Accused Instrumentalities include VoIP telephony devices connected to LANs, the VoIP telephony devices having telecommunications extensions associated therewith, the telecommunications extensions being coupled to the second and third LANs.

Map claims to the file wrapper - '298

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	90%	36%	90%	36%	An information handling system comprising: a first local area network ("LAN"); a second LAN; a wide area network ("WAN") coupling the first LAN to the second LAN; a third LAN coupled to the first and second LANs via the WAN; a first telecommunications device coupled to the first LAN; a plurality of telecommunications extensions coupled to the second LAN; the first LAN including first circuitry for enabling a user of the first telecommunications device to observe a list of the plurality of telecommunications extensions; the first LAN including second
<input checked="" type="checkbox"/> #8	84%	15%	84%	15%	
<input type="checkbox"/> #13	91%	29%	91%	29%	

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 8 **switch between claims**

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

i 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. (5)				
	US6298057	US6829231	US6065016	US7349967	OTHER REFERENCE
#1.01 (0%)	0%	0%	0%	0%	0%
#1.02 (N/A)	N/A	N/A	N/A	N/A	N/A
#1.03 (N/A)	N/A	N/A	N/A	N/A	N/A

Disclosure Rate by Prior Art

Map claims terms to the file wrapper - '298

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

Claims	Prior Art Ref. (5)		
	US6298057	US6829231	US6065016
#1.01 (0%)	0%	0%	0%
#1.02 (N/A)	N/A	N/A	N/A
#1.03 (N/A)	N/A	N/A	N/A
#1.04 [A] (100%)	75%	100%	100%
#1.05 [A] (100%)	100%	100%	100%

All of the limitations of this asserted claim element in '298 were 100% known by Wilson(US6829231) and Guy(US6298057).

Answer the questions:

Why was this patent granted?

Rejection from Examiner

Find 3 Result(s) [Find More Result\(s\)](#) [Filter](#) [Clear All](#)

Prior Art Ref. Wilson [US6829231] Guy [US6298057]

Rejection 20080401-CTFR Prosecution History 35 U.S.C. § 103

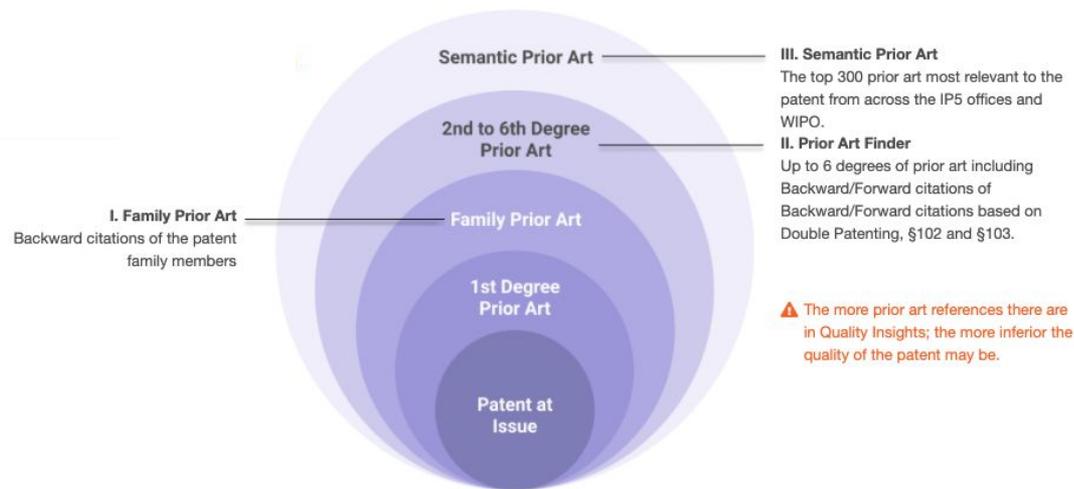
2.

claims 1-3, 5, 6, 8-10, 17-20, and 22-35 are rejected under 35 u.s.c. 103(a) as being unpatentable over **guy et al.**(usoo6298057b1), hereafter **guy**, in view of **wilson**(u8006829231 b1)- regarding claims 1-3, 5, 6, 8-10, 17-20, 22-25, 27, 29-31, 33, and 35, **guy** discloses a system and method for coupling a first **lan** 102a having server 112 to a second **lan** 102b having server 122 through **wan** 104 utilizing ip capabilities of the **lans** and **wan**(fig.1,col.1, lines 51-53;col.14, lines 13-17;claim 1 8 17 24 30 method in a information handling system comprising a first **lan**;claim 1 8,17,24,30-a second **lan**;claim 1 8 17 24 30 **wan**) coupling the first **lan** to the second **lan**;claim 2 17 30 **lans** and **wan** operate under ip protocol;claim 24 30 first and second ip servers within first and second **lans**).

fig.1 also shows that a plurality of telecommunications devices are coupled to the first and second **lans** 102a/b(claim 1,8,17,24,30-first telecommunications device coupled to the first **lan**;claim 1 8 17 24 27 33-plurality of telecommunications extensions/destinations coupled to the second **lan**).

guy discloses the ability to connect a phone of the first **lan** 102a to a destination phone of the second **lan** 102b(col.6, lines 4-11;col.10, lines 1-7).

How does Quality Insights generate prior art?



Prior Art Finder

Prior Art Finder for '298

Review cited and citing patents of '298 from the first to the sixth degree

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

1st Degree Art
4

2nd Degree Art
17

N Degree Art
81

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) |

US8391298B2

^ 1st Degree (4)

US6829231B1
 US6298057B1
 WO1999/005590A2
 US5689641A

v 2nd Degree (17)

v 3rd Degree (20)

v 4th Degree (20)

v 5th Degree (20)

v 6th Degree

5th Degree List | Selected 0/20 Patent(s) [Select top 20 patents in list](#)

	#	Patent No.		Title	Legal Status	Appl. Date	Pub./Issue Date	Assignee (Std)
<input type="checkbox"/>	1	US7457279B1	🔗	Method, system, and computer program pr...	Expired	2000-03-17	2008-11-25	VERTICAL COMMUNICATIO..
<input type="checkbox"/>	2	US20080211779A1	🔗	Control systems employing novel physical ...	PGPub - Granted	2007-10-31	2008-09-04	PRYOR TIMOTHY R
<input type="checkbox"/>	3	US20010023403A1	🔗	Computer jukebox and jukebox network	Abandoned Appl.	2001-05-23	2001-09-20	MARTIN JOHN R
<input type="checkbox"/>	4	US20060190355A1	🔗	System and Method for Designing and Oper...	PGPub - Granted	2006-04-12	2006-08-24	MICROSOFT CORP
<input type="checkbox"/>	5	US20120057012A1	🔗	ELECTRONIC MUSIC STAND PERFORMER ...	PGPub - Granted	2011-08-02	2012-03-08	SITRICK DAVID H
<input type="checkbox"/>	6	US20150082392A1	🔗	METHOD FOR MANAGING ACCESS TO PRO...	PGPub - Granted	2014-11-21	2015-03-19	PRISM TECHNOLOGIES LLC
<input type="checkbox"/>	7	US6327248B1	🔗	Method and apparatus for transmitting doc...	Expired	1998-02-27	2001-12-04	SANYO ELECTRIC CO LTD
<input type="checkbox"/>	8	US20150215378A1	🔗	Computer architecture for managing cours...	Abandoned Appl.	2014-06-03	2015-07-30	DIGITAL-VENDING SERVICE.

Up to the 6th Degree List

Family Prior Art

Family Prior Art of '298

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

Simple Family **1** Backward Citation: Patent **14** Backward Citation: Non-Patent Literature **0**

Click on Cited Patents for Potential Prior Art

Backward Citation: Patent

Categorized to indicate relevance; You can start from applicable references cited as novelty prior art

All References (14) **Applicable Only (14)**



Choose Applicable Only
(Applicability based on Priority Date calculation)

Prior Art List

KEEP Mode Ranked By: Appl. Date

#	Patent No.	Title	Legal Status	Appl. Date	Pub./Issue Date	Assignee (Std)	Applicability
1	US5689641A	Multimedia collaboration system arrangem...	Expired	1993-10-01	1997-11-18	VICOR INC	(Pre-AIA) § 102(a) (Pre-AIA) § 102(b) (Pre-AIA) § 102(e)(2)
2	US6298057B1	System and method for reliability transporti...	Expired	1996-04-19	2001-10-02	NORTEL NETWORKS LTD	(Pre-AIA) § 102(e)(2)
3	US6065016A	Universal directory service	Expired	1996-08-06	2000-05-16	AT&T CORP	(Pre-AIA) § 102(a) (Pre-AIA) § 102(e)(2)

Semantic Prior Art

Semantic Prior Art of '298

Review potential prior art ranked by concept similarity

Across IP5 and WIPO thanks to Patentcloud's proprietary algorithm

Semantic Prior Art

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 !](#)

KEEP Mode 1 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	US6829231B1	<input type="checkbox"/>	★	Internet phone system and directory search...	Abandoned	1996-12-31	2004-12-07	MCI COMMUNICATIONS CO...	(Pre-AIA) § 102(e)(2)
<input type="checkbox"/>		2	US6845096B1	<input type="checkbox"/>		Web phone dialer system apparatus and m...	Abandoned	1998-05-15	2005-01-18	HITACHI LTD	(Pre-AIA) § 102(e)(2)
<input type="checkbox"/>		3	US6763020B1	<input type="checkbox"/>		Call establishment method for dial-up inter...	Expired	1998-06-24	2004-07-13	INNOMEDIA INC	(Pre-AIA) § 102(e)(2)
<input type="checkbox"/>		4	US20020001303A1	<input type="checkbox"/>		Method and apparatus for practicing IP tele...	PGPub - Granted	2001-07-16	2002-01-03	BOYS DONALD ROBERT MA...	(Pre-AIA) § 102(e)(1)
<input type="checkbox"/>		5	US20060114890A1	<input type="checkbox"/>		Method and apparatus for practicing IP tele...	Abandoned	2006-01-17	2006-06-01	MARTIN BOYS DONALD R	(Pre-AIA) § 102(e)(1)
<input type="checkbox"/>		6	WO2000/074431A2	<input type="checkbox"/>		USER INTERFACE FOR IP TELEPHONY	Abandoned	2000-06-02	2000-12-07	AC PROPERTIES BV	(Pre-AIA) § 102(a)
<input type="checkbox"/>		7	JP2000-324173A	<input type="checkbox"/>		COMPUTER NETWORK TELEPHONE	Abandoned	2000-03-14	2000-11-24	INTERNATIONAL BUSINESS...	(Pre-AIA) § 102(a)
<input type="checkbox"/>		8	US6446127B1	<input type="checkbox"/>		System and method for providing user mob...	Expired	1999-11-30	2002-09-03	3COM CORP	(Pre-AIA) § 102(e)(2)
<input type="checkbox"/>		9	US6304565B1	<input type="checkbox"/>		Method of completing long distance pots c...	Expired	1998-05-20	2001-10-16	AT&T CORP	(Pre-AIA) § 102(e)(2)
<input type="checkbox"/>		10	WO1999/005590A2	<input type="checkbox"/>		APPARATUS AND METHOD FOR INTEGRAT...	PCT End - NP	1998-07-22	1999-02-04	STARVOX INC	(Pre-AIA) § 102(a) (Pre-AIA) § 102(b)

Semantic Prior Art of '298

Review potential prior art ranked by concept similarity

Active

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US8391298B2 [🔗](#)

Phone directory in a voice over IP telephone system

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](#)

+ Add text from claims
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[Discover prior art's similarity with claim chart format in s...](#)

Add text from claims ✕

Select A Claim

1
2
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Next 10

An information handling system comprising: a first local area network ("LAN"); a second LAN; a wide area network ("WAN") coupling the first LAN to the second LAN; a third LAN coupled to the first and second LANs via the WAN; a first telecommunications device coupled to the first LAN; a plurality of telecommunications extensions coupled to the second LAN; the first LAN including first circuitry for enabling a user of the first telecommunications device to observe a list of the plurality of telecommunications extensions; the first LAN including second circuitry for

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?

1.01
1.02
1.03
1.04
1.05
1.06
1.07
1.08

Find 2 Result(s) | Disclosure Rate: 100%

Disclosure Rate of Prior Art

Claim Element

#1.05 a third LAN coupled to the first and second LANs via the WAN;

Keyword List ⓘ

- wan (2) FW PA
WAN
- lans (2) FW PA
lan
LAN

US6829231B1 Content

Abstract

An Internet compatible dialer pad is used to dial into an Internet server to provide services similar to those found on the Plain Old Telephone System (" POTS ") . The dialer pad has an integrated modem set , an extended keypad with alphanumeric entry keys and function keys , display screen and display electronics that renders visual call progress information to the user as well as other communications indicators and related information about the current Internet connection . The dialer uses the Public Switched Telephone System (" PSTN ") and standard LAN / WAN technology to give the user entry into a plurality of Internet calling functions . An Internet database is maintained and permits the dialing party to obtain callee information by entering alphanumeric characters via the dialer . Links from the PSTN to an Internet data base are not restricted to a specific digital data protocol .

Specification

[17] In another aspect of the invention , the dialer uses the Public Switched Telephone System (" PSTN ") and standard LAN / WAN technology to gain access to a plurality of Internet enhanced calling systems . A directory search engine and user data base permit the caller to obtain callee information by entering alphanumeric characters on the dialer 's keypad . Links from the PSTN to an Internet data base are not restricted to a

Answer the question:
What does this prior art say about the Claim elements: "LAN", "WAN"?

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 - '916	3rd Degree Citation Prior Art - B
1	An information handling system comprising: a first local area network ("LAN"); a second LAN;	Refer to Claim Analysis results	N/A	.....
	a wide area network ("WAN") coupling the first LAN to the second LAN;	.....	66%	.....
	a third LAN coupled to the first and second LANs via the WAN;	.....	100%	.....
	a first telecommunications device coupled to the first LAN; a plurality of telecommunications extensions coupled to the second LAN;	.....	50%	.....
	.....the first LAN including circuitry for enabling the user to select between observing the list of the plurality of telecommunications extensions coupled to the second LAN or observing a list of the plurality of telecommunications extensions coupled to the third LAN.	.....	.....	.....

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

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Export Type: Patent List (Excel) Patent List (CSV) Full Text (PDF) Front Page (PDF)

Export Items: Selected Patents

Export Fields: Customized All Fields Save as my default settings.

Patent Field:

<input checked="" type="checkbox"/> Patent Office	<input checked="" type="checkbox"/> Appl. No.	<input type="checkbox"/> Appl. No. (PTO)	<input checked="" type="checkbox"/> Appl. Date
<input type="checkbox"/> Earliest Appl.	<input checked="" type="checkbox"/> Title	<input type="checkbox"/> Title (English)	<input type="checkbox"/> Patent No.
<input type="checkbox"/> Patent No. (PTO)	<input type="checkbox"/> Pub./Issue Date	<input type="checkbox"/> Pub. No.	<input type="checkbox"/> Pub. Date

File Name:

#	Patent No.	Title
<input checked="" type="checkbox"/>	1 CN1247662A	Dual use spe
<input checked="" type="checkbox"/>	2 EP0998105B1	Mobile teleph
<input checked="" type="checkbox"/>	3 JPH09-036932A	EXTERNAL R
<input checked="" type="checkbox"/>	4 JPH11-055358A	MOBILE RAD
<input checked="" type="checkbox"/>	5 US5317622	Ringling 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.

Prosecution and PTAB History

Key Events

Key Events - '298

1 Prosecution & 2 Post-Grant

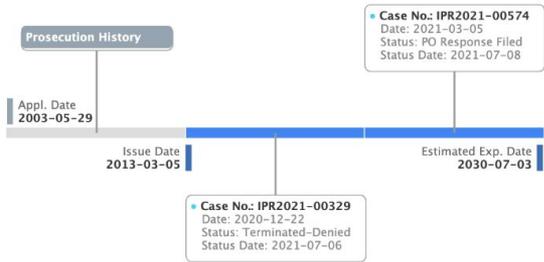
Event History 3	Family Status 1 Applications	Prior Art Status 373 Applications / 2 NPL References
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Event History | **1** Prosecution History / **2** Post-Grant

of Family Counterparts and Legal Status

of Highly Relevant Prior Art References

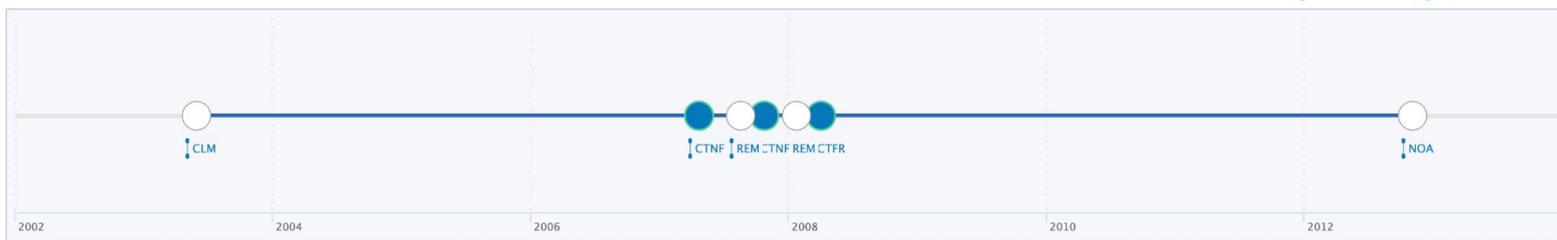
Validity challenges to a patent in its prosecution history and post-grant events



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

○ Other Document ● Rejection Document

Timeline of Prosecution:



Key Events - '298

Prosecution History

10/447607 Prior Art Ref. | 4 Ref.

Check prior art cited and the legal basis of these challenges

Double Patenting | 0 Ref.

§ 102 | 1 Ref.

[US6829231](#)
Wilson

§ 103 | 3 Ref.

[US6829231](#) (1st) | [US6298057](#) (1st) | [US6065016](#)
Wilson | Guy | Stuntebeck

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

Summary of 10/447607 History | 7 Event(s)

Direct links to Grounds, Claims Highlighted and Prior Art Details

Data Last Updated on: 2022-01-11

Descriptions (Code)	Date ↓	Prior Art Ref.
Notice of Allowance (NOA)	2012-11-02	
Final Rejection (CTFR)	2008-04-01	Grounds 3 ^
Legal Basis		Claims
35 U.S.C. § 103		Guy US6298057 (1st) Wilson US6829231 Stuntebeck US6065016
35 U.S.C. § 103		Wilson US6829231 (1st) Guy US6298057

Key Events - '298

Post-Grant

Event History 3	Family Status 1 Applications	Prior Art Status 373 Applications / 2 NPL References
----------------------------------	---	--

Event History | 1 Prosecution History / 2 Post-Grant

of Family Counterparts and Legal Status

of Highly Relevant Prior Art References

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



Click to view each event in summary and details of IPR

Timeline of IPR:



Key Events - '298

Prosecution History

IPR2021-00574 Prior Art Ref. | 4 Ref.

Check prior art cited and the legal basis of these challenges

Double Patenting | 0 Ref.

§ 102 | 0 Ref.

§ 103 | 4 Ref.

[WO1999/005590 \(1st\)](#) | [other reference](#) | [other reference](#) | [US6490619](#)
 Chang | Imielinski | POSITA | Byrne

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

Summary of IPR2021-00574 History | 2 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.
Patent Owner's Preliminary Response	2021-07-08	
Petition	2021-03-05	Grounds 6 ^
Legal Basis	Claims	Prior Art Ref.
35 U.S.C. § 103	claim 6	Chang WO1999/005590 (1st) Imielinski (other reference) POSITA (other reference) Byrne US6490619
35 U.S.C. § 103	claim 6	Chang WO1999/005590 (1st) Byrne US6490619

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

[About File Wrapper Search](#)

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

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

Prosecution and PTAB History PDF Downloads

PDF Downloads

Download the complete set or just part of the PDF files in the File Wrapper Search.

Cross-Document Search

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

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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

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.

The screenshot displays a software interface for keyword searching. On the left, a 'Keywords (2)' panel is highlighted with an orange box. It contains a 'Select a Keyword Set' dropdown, a 'Clear All' button, and two keyword entries: 'sensor' (33) and 'flexible substrate (1)'. Below these is an '+ Add new keyword' button and a 'Save to Keyword Set' button at the bottom.

The main area shows a side-by-side comparison of a patent document (US 9,089,672) and its OCR text. The document view on the left shows the original text with a search bar at the top indicating '13/284,674' and '6 / 18' pages. The OCR view on the right shows the same text with search results highlighted in green. The search results for 'flexible substrate' are highlighted in the OCR text, showing the context of the search terms within the document's claims and description.

The OCR text includes the following highlighted sections:

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 2008/0303792 A1 (previously cited and
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hereinafter Grant) in View of Hotelling et al. US 2008/0158183 A1 (previously cited and hereinafter Hotelling), in further View of Gray et al. US 2010/00451614 (previously cited and hereinafter Gray) and in further View of Frey et al. US 2009/0219257 (Newly 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 [0004], [0005], [0006], [0006], [0022], [0023], [0027], and [0071], e.g., flexible surface, flexible circuit, and capacitive touch [0004] which must be conductive to receive user input) disposed on the substantially flexible substrate (see at least Figs. 1A-C; [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 [0004] comprising drive or sense electrodes made of flexible conductive material.
However, Hotelling does teach a touch [0004] (Fig. 2a, 5 and the corresponding descriptions, and the Summary of the Invention, i.e., a touch [0004] 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).
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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 [0004] 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.



QI is a Game Changer

- Take control of a patent at issue with its comprehensive Overview
- Discover claim construction issues and define the claim scope
- Find more relevant prior art references
- Save time to increase productivity for a pitch and win