



Quality Insights

Patentcloud Quality Insights Annotation Report
***Intellectual Ventures I LLC et al v. Honda Motor Company,
Ltd. et al***

EDTX-2-21-cv-00390

Focus on: U.S. Pat. No. 10,292,138

Filing date: Oct. 19, 2021

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Click on a page number to read

Claim Construction and § 112 Invalidity

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§ 102 and § 103 Invalidity

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Map claims to specification and file wrapper

Map claims to specification - '138

Which claim terms are or are not in the specification?

35 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.
 "circuitry", "communicatively", "occurs", "selection", "subset"

A user equipment (UE) comprising:

a processor communicatively coupled to a transmitter and circuitry configured to receive;

and the processor is configured to:

Select Terms

cause the circuitry to receive parameters associated with a plurality of radio bearers, determine a plurality of buffer occupancies, wherein

each of the plurality of buffer occupancies is associated with one or more radio bearers of the plurality of radio bearers, cause the transmitter to transmit a message including the plurality of buffer occupancies to a network, cause the circuitry to receive a single allocation of uplink resources, select data from the plurality of radio bearers for transmission using the single allocation of uplink resources, wherein

the selection of the data occurs using a first iteration and a second iteration, wherein

Claim Analysis finds these terms in the spec:
 “**user equipment(UE)**”, “**radio bearers**”, “**buffer occupancies**”, “**uplink resources**”, as well as other terms that are highlighted in red.

Map claims to specification - '138

Which claim terms are or are not in the specification?

35 Terms Identified in This Claim ☰ ☰

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

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A user equipment (UE) comprising:

a processor communicatively coupled to a transmitter and circuitry configured to receive;

and the processor is configured to:

Select Terms

cause the circuitry to receive parameters associated with a plurality of radio bearers, determine a plurality of buffer occupancies, wherein

each of the plurality of buffer occupancies is associated with one or more radio bearers of the plurality of radio bearers, cause the transmitter to

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

Selected elements of '138 Claim 1

Selected elements of Claim '1 in Spec

Figures of '138

Select Text

radio bearers

The selected clause includes the following keywords:

radio (47)

bearers (36)

Content

[0027] The provision of a message that indicates separate buffer occupancy for each of the individual radio bearers provides effective prioritization, in that the allocator knows the buffer occupancy for each radio bearer (RB), in the UL direction. This supports signalling to enable the UE to report this volume.

[0026] The provision of a signal processor arranged to identify buffer occupancy for individual radio bearers (or services) advantageously enables any system to provide prioritization, whether within a users allocation or across users. In one embodiment of the present invention the message indicates separate buffer occupancy for each of the radio bearers.

[0028] In one embodiment of the present invention, the

2

Functionality identifies a particular service and filters all data associated with this service onto a particular RB

Map claims to specification and Complaint - '138

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

Select Text

radio bearers

The selected clause includes the following keywords:

radio (47)

bearers (34)

Content

[0027] The provision of a message that indicates separate buffer occupancy for each of the individual radio bearers provides effective prioritization, in that the allocator knows the buffer occupancy for each radio bearer (RB), in the UL direction. This supports signalling to enable the UE to report this volume.

[0026] The provision of a signal processor arranged to identify buffer occupancy for individual radio bearers (or services) advantageously enables any system to provide prioritization, whether within a users allocation or across users. In one embodiment of the present invention the message indicates separate buffer occupancy for each of the radio bearers.

2

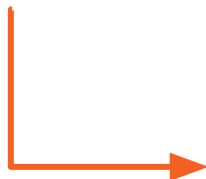
128

Functionality identifies a particular service and filters all data associated with this service onto a particular RB

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

Answer the question:

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



178. Upon information and belief, the Honda Count VIII Automobiles' Mobile Hotspot, HondaLink®, and/or 4G LTE modem comprise a processor further configured to cause the circuitry to receive parameters associated with a plurality of radio bearers.

4.3.2 Control plane

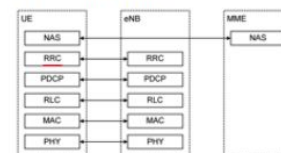


Figure 4.3.2-1: Control-plane protocol stack

Map claims to the file wrapper - '138

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	
	Prosecution History	Post-Grant	Prosecution History	Post-Grant
<input checked="" type="checkbox"/> #1	28%	0%	28%	0%
<input checked="" type="checkbox"/> #8	34%	0%	34%	0%

Claim# 1
A user equipment (UE) comprising: a processor communicatively coupled to a transmitter and circuitry configured to receive; and the processor is configured to: cause the circuitry to receive parameters associated with a plurality of radio bearers, determine a plurality of buffer occupancies, wherein each of the plurality of buffer occupancies is associated with one or more radio bearers of the plurality of radio bearers, cause the transmitter to transmit a message including the plurality of buffer occupancies to a network, cause the circuitry to receive a single allocation of uplink resources, select data from the plurality of radio bearers for transmission using the single allocation of uplink resources,

Confirm

From **Claim Insights**, 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.

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. (s)		
	US8681466	US9320018	US8428026
#1.01 (N/A)	N/A	N/A	N/A
#1.02 (100%)	100%	100%	100%
#1.03 (N/A)	N/A	N/A	N/A
#1.04 (75%)	50%	75%	75%
#1.05 (77%)	66%	77%	77%

Disclosure Rate by Prior Art

Map claims terms to the file wrapper - '138

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

Claims	Prior Art Ref. (s)		
	US8681466	US9320018	US8428226
#1.01 (N/A)	N/A	N/A	N/A
#1.02 (100%)	100%	100%	100%
#1.03 (N/A)	N/A	N/A	N/A
#1.04 (75%)	50%	25%	25%
#1.05 (77%)	55%	22%	22%

All of the limitations of this asserted claim element in '138 were 75% known by US9320018.

Answer the question:
Why was this patent granted?

Claim Insights Summary Table > Claim Table (Claim# 1) > Claim Element Page (Claim# 1.04) > US9320018 | Select A Claim 1 8

Side-by-side comparison; Claim terms not found may imply the reasons for patentability.

1.01 1.02 1.03 1.04 1.05 1.06 1.07 1.08 Find 1 Result(s) Filter Clear All

1.09 1.10 1.11

Claim Element

#1.04 cause the **circuitry** to receive parameters associated with a plurality of **radio bearers**, determine a plurality of **buffer occupancies**, wherein

Terms not in the file wrapper

determine

Prior Art Ref. [US9320018] 20180112-CTNF Prosecution History 35 U.S.C. double patenting

Rejection → Rejection from Examiner

the use of claim 1 further comprising: a transmitter further configured to transmit a third transmission including a plurality of indications of **buffer occupancies** associated with the plurality of channels plurality of **radio bearers**, and receive an allocation message for an uplink resource from the network device; the processor further configured to allocate resources in response to the allocation message, wherein resources are allocated for data of each channel of a **radio bearer** having a second parameter above zero before another channel's data for transmission having a third parameter less than or equal to zero; and wherein the second parameter is derived from a first channel's first parameter and the third parameter is derived from a second channel's first parameter.

10.

the use of claim 9 further comprising: **circuitry** configured to send a plurality of indications of **buffer occupancies** corresponding to each of the plurality of **radio bearers**.

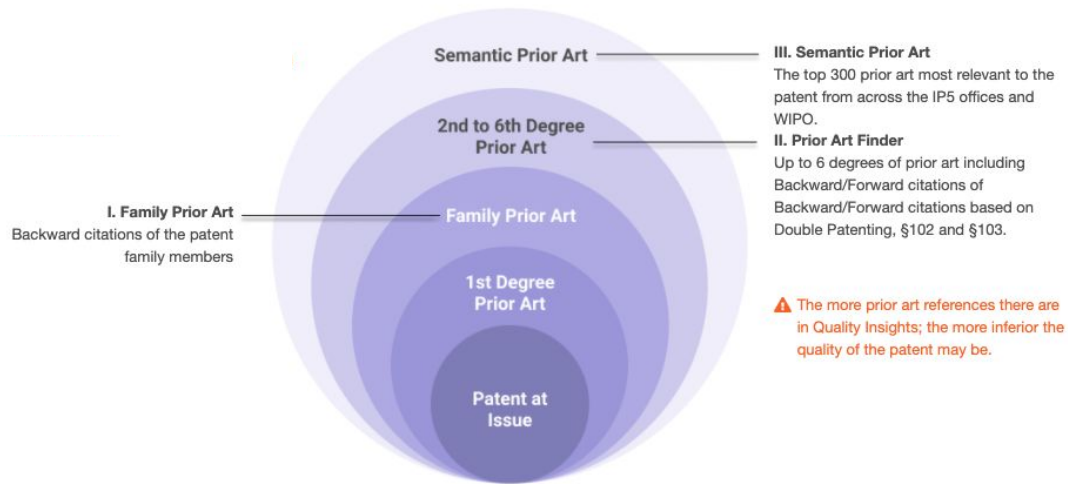
Remarks 20180712-REM

claims 1-8 are canceled, thereby rendering this rejection moot. it should also be noted that although arguments have been presented with respect to certain claims herein, the recited subject matter as well as various other subject matter and/or combinations of subject matter may be patentable for other reasons. further, the failure to address any statement by the examiner herein should not be interpreted as acquiescence or agreement with such statement. the applicant expressly reserves the right to set forth additional and/or alternative reasons for patentability and/or allowance with the present application or in any other future proceeding, and to rebut any statement presented by the examiner in this or other papers during prosecution of the present application. if the examiner believes that any additional minor formal matters need to be addressed in order to place this application in condition for allowance, or that a telephonic interview will help to materially advance the prosecution of this application, the examiner is invited to contact the undersigned by telephone at the examiner's convenience.

[^ Show Less](#)

Remark from Applicant →

How does Quality Insights generate prior art?



Prior Art Finder

Prior Art Finder for '138

Review cited and citing patents of '138 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
7

N Degree Art
71

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) |

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US10292138B2

1st Degree (4)

US8428026B2
US20200107298A1
US9320018B2
US8681466B2

2nd Degree (7)

3rd Degree (20)

4th Degree (20)

5th Degree (20)

6th Degree

6th Degree List

#	Patent No.	Title	Legal Status	# of Claim	# of Independent Claim	Appl. Date	Pub./Issue Date	Assignee (Std)
1	US6748070B2	Method for allocating network resources	Lapsed			2002-06-24	2004-06-08	AT&T CORP
2	US8457109B2	Access based internet protocol multimedia ...	Active			2006-01-31	2013-06-04	UNITED STATES CELLULA
3	US7647408B2	Methods for enhancing SDP preconditions ...	Lapsed			2003-01-31	2010-01-12	QUALCOMM INC
4	US5541927A	Method of multicasting	Expired			1994-08-24	1996-07-30	AT&T CORP
5	US6005852A	Load control method and apparatus for CD...	Expired			1998-04-22	1999-12-21	NOKIA CORP
6	US6490275B1	Method and apparatus for improving call se...	Expired			1998-10-13	2002-12-03	NOKIA CORP

Up to 6th Degree
Prior Art List

Family Prior Art

Family Prior Art of '138

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

Simple Family
14

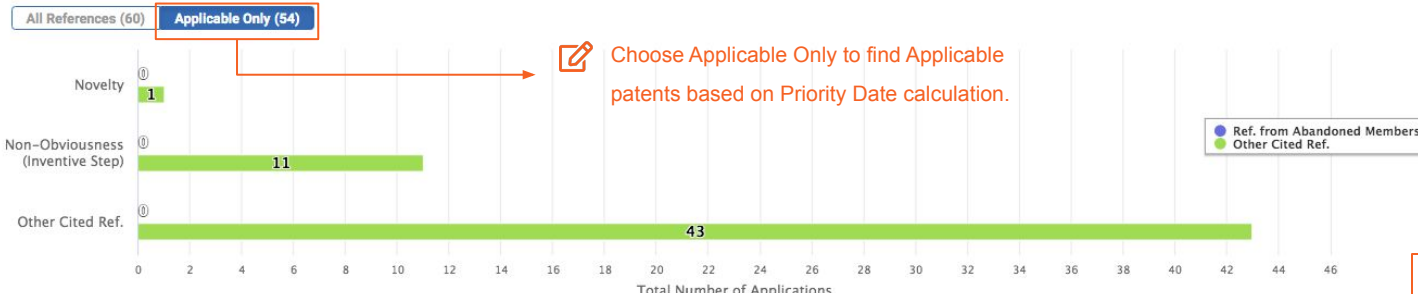
Backward Citation: Patent
60

Backward Citation: Non-Patent Literature
169

Backward Citation: Patent

[Click on Cited Patents for Potential Prior Art](#)

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



[Prior Art List](#)

KEEP Mode Ranked By: Appl. Date | [Filter] [Reset] [Print] [Export] [Share] [Menu]

#	Patent No.	Title	Legal Status	# of Claim	# of Independent Claim	Appl. Date	Pub./Issue Date	Assignee (Std)	Applicability
1	US5566175A	Asynchronous transfer mode data transmis...	Lapsed			1993-05-04	1996-10-15	ROKE MANOR RESEARCH L...	(Pre-AIA) § 102(a) (Pre-AIA) § 102(b) (Pre-AIA) § 102(e)(2)
2	US5742592A	Method for communicating data in a wirele...	Expired			1995-09-01	1998-04-21	MOTOROLA INC	(Pre-AIA) § 102(a) (Pre-AIA) § 102(b) (Pre-AIA) § 102(e)(2)

Semantic Prior Art

Semantic Prior Art of 138

Review potential prior art ranked by concept similarity

Across IP5 and WIPO thanks to Patentcloud's proprietary algorithm

Semantic Prior Art

Most Relevant IP5 & WO 300 prior art references based on **Semantic Similarity** among the first claims and abstracts. 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 1 are of high semantic similarity Ranked By : Relevance

<input type="checkbox"/>	<input type="checkbox"/>	Ranking	Patent No.	<input type="checkbox"/>	★	Title	Legal Status ?	# of Claim	# of Independent Claim	Appl. Date	Pub./Issue Date	Assignee (Std)
<input type="checkbox"/>	<input type="checkbox"/>	1	US7394765B2	<input type="checkbox"/>	★	Method of measuring traffic volume in mob...	Active			2002-02-19	2008-07-01	LG ELECTRONICS INC
<input type="checkbox"/>	<input type="checkbox"/>	2	US7039416B2	<input type="checkbox"/>		Method and apparatus for adapting a numb...	Abandoned			2002-02-22	2006-05-02	TELEFONAKTIEBOLA
<input type="checkbox"/>	<input type="checkbox"/>	3	US20060187844A1	<input type="checkbox"/>		High speed uplink packet access scheme	PGPub - Granted			2006-01-06	2006-08-24	LG ELECTRONICS INC
<input type="checkbox"/>	<input type="checkbox"/>	4	EP1362493A1	<input type="checkbox"/>		METHOD FOR ADAPTING A NUMBER OF B...	PGPub - Granted			2002-02-22	2003-11-19	TELEFONAKTIEBOLA
<input type="checkbox"/>	<input type="checkbox"/>	5	WO2002/069659A1	<input type="checkbox"/>		METHOD FOR ADAPTING A NUMBER OF B...	PCT End - NP			2002-02-22	2002-09-06	TELEFONAKTIEBOLA
<input type="checkbox"/>	<input type="checkbox"/>	6	US20040132455A1	<input type="checkbox"/>		Method for adapting a number of bearers t...	PGPub - Granted			2004-01-07	2004-07-08	STUMPERT MARTIN
<input type="checkbox"/>	<input type="checkbox"/>	7	US8711766B2	<input type="checkbox"/>		SRB enhancement on HS-DSCH during cell ...	Active			2006-07-10	2014-04-29	TELEFONAKTIEBOLA
<input type="checkbox"/>	<input type="checkbox"/>	8	JP2004-080707A	<input type="checkbox"/>		RADIO COMMUNICATION DEVICE	Abandoned			2002-08-22	2004-03-11	PANASONIC CORP

Semantic Prior Art of '138

Review potential prior art ranked by concept similarity

US10292138B2 [↗](#)

Determining buffer occupancy and selecting data for transmission on a radio bearer

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 IP5 & WO 300 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 user equipment (UE) comprising: a processor communicatively coupled to a transmitter and circuitry configured to receive, and the processor is configured to: cause the circuitry to receive parameters associated with a plurality of radio bearers, determine a plurality of buffer occupancies, wherein each of the plurality of buffer occupancies is associated with one or more radio bearers of the plurality of radio bearers, cause the transmitter to transmit a message including the plurality of buffer occupancies to a network, cause the circuitry to receive a single allocation of uplink resources, select data from the plurality of radio bearers for transmission using the

[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 30 Result(s) | Disclosure Rate 60%

Claim Element

Disclosure Rate of Prior Art

#1.04 cause the circuitry to receive parameters associated with a plurality of radio bearers, determine a plurality of buffer occupancies, wherein

US7394765B2 Content

Abstract

A method for measuring the traffic volume of a transport channel in a mobile communication system is disclosed, including receiving a buffer occupancy for each of a set of logical channels mapped to a transport channel, measuring a traffic volume of the transport channel based on the received buffer occupancies, and reporting the measured traffic volume of the transport channel to an upper layer. The measured traffic volume may be reported to the upper layer when the volume is out of a given range or a timer set to a given period has expired. Using this method, a radio resource control layer can perform a dynamic radio bearer reconfiguration using the measurement results received from a medium access control layer of the communication system.

Keyword List

- buffer occupancies (50) FW PA
- buffer occupancy
- radio bearers (29) FW PA
- radio bearer
- determine (4) PA
- determines
- determined
- circuitry (0) FW
- plurality (0) FW

Claim# 1 A traffic volume measurement method for controlling at least one radio bearer, comprising: receiving, from an upper layer, measurement information including lower and upper values of permissible traffic volume for a transport channel; receiving buffer occupancy from a radio link control (RLC) layer for each logical channel related to the transport channel, the buffer occupancy for each logical channel related to the transport channel including an amount of data protocol data units (PDUs) stored in the buffer and an amount of control PDUs being generated; measuring traffic volume for the transport channel by summing the buffer occupancy for each logical channel related to the transport channel; comparing the measured traffic volume to the lower or upper value; and reporting buffer occupancy information to the upper layer, if the measured traffic volume is larger than the upper value or lower than the lower value.

Claim# 11 The method of claim 9, wherein the buffer occupancy information reported to the upper layer includes buffer occupancy information for each of the at least one radio bearer mapped to the transport channel.

Answer the question:
What does this prior art say about the Claim elements: “buffer occupancy, “radio bearers” ?

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

Source: Quality Insights

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Prior Art Comparison (sample output)

Easily generate a table like below

	Claim	Claim-Term Interpretation	Semantic Prior Art - '765	3rd Degree Citation Prior Art - B
1	A user equipment (UE) comprising:	Refer to Claim Analysis results	100%	.....
	a processor communicatively coupled to a transmitter and circuitry configured to receive; and the processor is configured to:		N/A	.....
	cause the circuitry to receive parameters associated with a plurality of radio bearers, determine a plurality of buffer occupancies, wherein	.....	60%	.....
	each of the plurality of buffer occupancies is associated with one or more radio bearers of the plurality of radio bearers,.....using the single allocation of uplink resources, wherein	.....	50%	.....
	the selection of the data occurs using a first iteration and a second iteration, wherein in the first iteration,	.....	N/A	
	the selection of the data is selected from a subset of the plurality of radio bearers based on the received parameters, wherein	.....	33%	.....
	in the second iteration,	.....	N/A	
	the selection of the data is based on buffered data for respective radio bearers,	.....	25%	
	and cause the transmitter to transmit a signal including the selected data.		33%	

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

Export

#	Patent No.	Title
<input checked="" type="checkbox"/>	1 CN1247662A	Dual use spea
<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 - '138

1 Prosecution & 0 Post-Grant*

Event History

1

Family Status

14 Applications

Prior Art Status

365 Applications / **169** NPL References

Event History | **1** Prosecution History / **0** 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

Prosecution History

RCE

Appl. Date
2017-06-09

Issue Date
2019-05-14

Estimated Exp. Date
2026-05-08

No Data



Legend

Document Code	Document Description
RCEX	Request for Continued Examination
CTNF	Non-final rejection
CLM	Claims
REM	Remarks

Timeline of Prosecution:



*This complaint/petition is still pending institution. After institution, this case will appear under the Key Event tab.

Key Events - '138

Prosecution History

15/618669 Prior Art Ref. | 3 Ref.

Check prior art cited and the legal basis of these challenges

Double Patenting 3 Ref.

§ 102 0 Ref.

§ 103 0 Ref.

[US8681466](#) [US9320018](#) [US8428026](#)

Summary of 15/618669 History | 6 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: 2021-09-08

Descriptions (Code)	Date	Prior Art Ref.
Notice of Allowance (NOA)	2019-01-08	
Request for Continued Examination (RCEX)	2018-12-11	
Notice of Allowance (NOA)	2018-09-11	
Applicant Arguments/Remarks Made in an Amendment (REM)	2018-07-12	
Claims (CLM)		
Non-Final Rejection (CTNF)	2018-01-12	Grounds 3 ^
Legal Basis	Claims	Prior Art Ref.
double patenting	claim 1,2,3,4,5,6,7,8	US8681466
double patenting	claim 1,2,3,4,5,6,7,8	US9320018
double patenting	claim 1,2,6,7	US8428026
Claims (CLM)	2017-06-09	

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](#)

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

▼

[① About File Wrapper Search](#)

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 a '+ Add new keyword' button and a 'Save to Keyword Set' button at the bottom.

The main area shows a side-by-side comparison of two documents. The left document is 'US 5,089,672; Col. 2, lines 11-16; Col. 5, lines 1-20; Col. 5, lines 61-68'. The right document is 'US 2010/004516/14'. The text in the right document is highlighted in green, corresponding to the search terms. The highlighted text includes:

103) as being unpatentable over Grant et al. US 2008/0303792 A1 (previously cited and ... PAGE 5 ...

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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 2010/004516/14 (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 [0003], [0005], [0006], [0006], [0022], [0023], [0027], and [0071], e.g., flexible surface, flexible circuit, and capacitive touch [0003] 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 [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).

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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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