



Quality Insights

Patentcloud Quality Insights Annotation Report
GMI Holdings Incorporated et al. v. The Chamberlain Group, Inc.

ITC-337-TA-1209

Focus on: U.S. Pat. No. 9,483,935

Filing date: Jul. 06, 2020

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Map claims to specification and file wrapper

Map claims to specification - '935

Which claim terms are or are not in the specification?

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

A **remote controlled barrier opening system**, comprising:

a **transmitter** configured to:

(a) **switch an output frequency to different channels**,

the **switching being performed at a transmitter switching rate**,

and (b) on each of the **channels**, **transmit multiple copies** of a message;

a **receiver** configured to:

(a) **switch a reception frequency** to the different channels at a **receiver scan rate** that is different from the **transmitter-switching rate**,

and (b) on each of the **channels**, **receive data for a period of time greater than a transmission time of one copy of the message**;

and a **barrier operator** configured to **operate a device at least in part in response to receipt of a copy of the message on any of the different channels**.

Claim Analysis finds these terms in the spec:
“**transmit multiple copies**”, “**reception frequency**”, “**receiver scan rate**”,
“**transmitter-switching rate**”, as well as other terms that are highlighted in red.

Map claims to specification - '935

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

A remote controlled barrier opening system, comprising:

a transmitter configured to:

(a) switch an output frequency to different channels,

the switching being performed at a transmission rate,

and (b) on each of the channels, transmit multiple copies of a message;

a receiver configured to:

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

Selected elements of '935 Claim 1

Selected elements of Claim '1 in Spec

Figures of '935

Select Text

transmit multiple copies

The selected clause includes the following keywords:

- copies (7)
- transmit (19)
- multiple (5)

Content

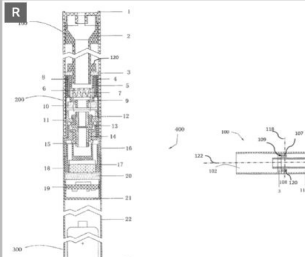
[0047] Although only two channels are demonstrated, it should be readily understood that additional channels can be included. Also, it should be understood that the aforementioned dwell periods are periods of time for the receiver to dwell on a channel, and that these dwell periods can be different in length or identical in length. These dwell periods can also be predetermined or dynamically determined. In some embodiments, the dwell periods can be predetermined to be long enough to ensure opportunity to receive at least two copies of a packet transmit table over a channel by remote control transmit ter devices of a target category, and not equal to an amount of time required by the remote control transmit ter devices of the target category to transmit a predetermined number of copies of the packet on a channel before switching to another channel. In alternative or additional embodiments, the dwell periods can be predetermined to ensure that the

5

FIGURE 5(a)

Map claims to specification and Complaint - '935

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

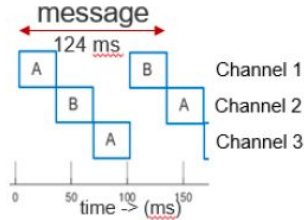
Select Text	Content
<p>liquid | storage | cavity</p> <p>The selected clause includes the following keywords:</p> <p>storage (11)</p> <p>liquid (55)</p> <p>cavity (11)</p>	<p>[0015] Referring to FIG. 2, the container 100 is detachably connected to the atomizer 200 to facilitate replacement of the container 100 and the liquid. The container 100 is substantially hollow cylinder and includes the inhalation element 1, the liquid tank 2, an outlet-defining element 120, and the absorbent element 3. The inhalation element 1 is shaped as a substantially hollow cylinder defining the opening 102 at one end, and the inhalation hole 104 at the other end thereof as an inhalation end or a mouth-end piece. The liquid tank 2 defines the smoke channel 106 in a middle portion thereof communicating with the inhalation hole 104. In the embodiments of FIGS. 1 and 2, the liquid tank 2 is hollow cylindrical with the smoke channel 106 defined therein, and has concave or inward-curved outer-surfaces. In the embodiments of FIGS. 1 and 2, the absorbent element 3 is exemplary annular and flange-</p> 

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?



<p>[b] on each of the channels, transmit multiple copies</p>	<p>The Chamberlain Model # 953ESTD is a transmitter configured to transmit multiple copies of a message on each of the channels. The Model # 953ESTD transmits data packet "A" on a first channel, then transmits packet "B" in sequence on the subsequent channel.</p>
<p>of a message;</p>	 <p>packets versus time ></p> <p>A single copy of a message can be identified as in the above figure.</p>

Map claims to the file wrapper - '935

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
#1	35%	0%	35%	0%
#2	50%	0%	50%	0%
#3	0%	0%	0%	0%
#4	50%	0%	50%	0%

Claim# 1
A remote controlled barrier opening system, comprising: a transmitter configured to: (a) switch an output frequency to different channels, the switching being performed at a transmitter-switching rate, and (b) on each of the channels, transmit multiple copies of a message; a receiver configured to: (a) switch a reception frequency to the different channels at a receiver scan rate that is different from the transmitter-switching rate, and (b) on each of the channels, receive data for a period of time greater than a transmission time of one copy of the message; and a barrier operator configured to operate a device at least in part in response to receipt of a copy of the message on

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 4 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. (2)	
	US2007/0152798	US2006/0181428
#1.01 (0%)	0%	0%
#1.02 (N/A)	N/A	N/A
#1.03 [A] (100%)	100%	100%
#1.04 (0%)	0%	0%
#1.05 [A] (100%)	100%	100%

Disclosure Rate by Prior Art

Map claims terms to the file wrapper - '935

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

Claims	Prior Art Ref. (2)	
	US2007/0152798	US2006/0181428
#1.01 (0%)	0%	0%
#1.02 (N/A)	N/A	N/A
#1.03 (X) (100%)	100%	100%
#1.04 (0%)	0%	0%
#1.05 (X) (100%)	100%	100%

Claim Insights Summary Table > Claim Table (Claim# 1) > Claim Element Page (Claim# 1.05) > US2007/0152798 | Select A Claim (1 / 4)

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

Find 1 Result(s) **Rejection from Examiner** Filter Clear All

Claim Element

#1.05 and (b) on each of the **channels**, transmit **multiple copies** of a **message**.

Prior Art Ref. Blaker [US2006/0181428] Witkowski [US2007/0152798]

Rejection 20151117-CTNF Prosecution History 35 U.S.C. § 103

7.

claims 10, 11, 21 and 22 are rejected under pre - aia 35 usc.103(a)as being unpatentable over witkowski (witkowski.us 2007/0152798) in view of blaker (blaker.us 2006/0181428).

for claim 10, witkowski disclose a modulator operatively connected to initially set an output frequency to a first **channel**;0016:transmit at a first frequency; a controller operatively connected to transmit **multiple copies** of a **message** containing a rolling code over the first **channel**;0016:transmit an encrypted rolling code;**message**; in response to the first determination, cause said modulator to switch the output frequency to a second **channel**;0016:upon expiration of the predetermined period of time, transmitter 102 transmits the same encrypted **message** at a second frequency; wherein said controller is operatively connected to transmit the **multiple copies** of the **message** over the second **channel**;0016:transmits the same encrypted **message** at a second frequency], in response to the second determination.cause said modulator to tune to the first **channel**;0016:transmit an encrypted **message** at a first frequency for a predetermined period of time].

Remarks 20160405-REM

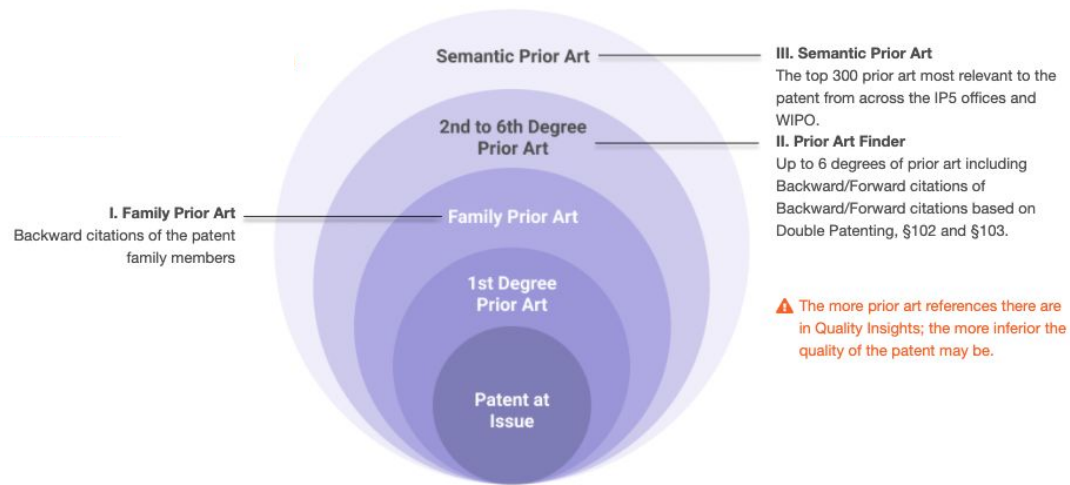
claims 1, 2, 4-7, 9, 12, 13, 15-17, 19, 20, 23, 24 and 26 were rejected under 35 u.s.c. § 101 on the grounds of statutory double patenting in view of claims 1, 2, 4-7, 9, 12, 13, 15-17, 19, 20, 23, 24 and 26 of u.s. patent no.claims 3, 8, 14, 18 and 25 were rejected under 35 u.s.c. § 101 on the grounds of statutory double patenting in view of claims 1, 4, 8, 10 and 15 of claims 3, 8, 10, 11, 14, 18, 21, 22 and 25 were rejected on the ground of nonstatutory double patenting over claims 3, 8, 10, 11, 14, 18, 21, 22 and 25 claims 1-26 were rejected on the ground of nonstatutory double patenting over claims 1-6 of u.s. patent no.8,581,695. to address the statutory and nonstatutory double patenting rejections, independent claims 1, 6, 10, 12, 16, 21, and 23 have been amended together with dependent claims 2-5, 7-9, 13-15, 17, 18, and 26. applicant submits that neither the statutory double patenting rejection nor the nonstatutory double patenting rejection is applicable in view of the amended claims, and thus those rejections should be withdrawn. rejections under § 103(a) witkowski and blake:claims 10, 11, 21 and 22 were rejected under pre-aia 35 u.s.c. § 103(a)as being unpatentable over u.s. publication no.2007/0152798(witkowski)in view of u.s. publication no.2006/0181428 to blaker (blaker). applicants submit that amended independent claims 10 and 21 are patentable over witkowski in view of blaker, and that dependent claims 11 and 22 are patentable at least by virtue of their dependency, in particular, with reference to independent claim 10, neither witkowski nor blaker teaches a **channel** switching control circuit configured to make a first determination of whether a predetermined number of copies of the **message** have been transmitted over the first **channel**, and, in response to the first determination, cause said modulator to switch the output frequency to a second **channel**, at a first scanning rate, 'and' wherein said controller is configured to transmit the **multiple copies** of the **message** over the second **channel**, and said **channel** switching control circuit is configured to make a second determination of whether the predetermined number of the **multiple copies** of the **message** have been transmitted over the second **channel**, and, in response to the second determination, cause said

Remark from Applicant

All of the limitations of this asserted claim element in '935 were 100% known by Blaker(US2006/0181428) and Witkowski(US2007/0152798).

Answer the question:
Why was this patent granted?

How does Quality Insights generate prior art?



Prior Art Finder

Prior Art Finder for '935

Review cited and citing patents of '935 from the first to the sixth degree

Filter by:

- Applicability
- Legal Basis (§102 or §103)
- Patent Office
- Legal Status

1st Degree Art
3

2nd Degree Art
6

N Degree Art
45

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) |

US9483935B2

- 1st Degree (3)
- 2nd Degree (6)
- 3rd Degree (4)
- 4th Degree (12)
- 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	US20140350339A1	Ⓢ ATRAUMATIC ARTHROSCOPIC INSTRUME...	PGPub - Granted			2014-06-03	2014-11-27	CANNUFLOW INC
2	US20090182201A1	Ⓢ Atraumatic Arthroscopic Instrument Sheath	PGPub - Granted			2009-03-10	2009-07-16	CANNUFLOW INC
3	US20120215067A1	Ⓢ Atraumatic Arthroscopic Instrument Sheath	PGPub - Granted			2012-02-21	2012-08-23	CANNUFLOW INC
4	US20110221582A1	Ⓢ User-Assisted Programmable Appliance Co...	PGPub - Granted			2011-05-25	2011-09-15	LEAR CORP
5	US8012383B2	Ⓢ Method for producing polarizing film	Active			2002-12-12	2011-09-06	SUMITOMO CHEMICAL CO.
6	US5575756A	Ⓢ Endoscope apparatus	Expired			1994-08-12	1996-11-19	OLYMPUS CORP

Up to 6th Degree
Prior Art List

Family Prior Art

Family Prior Art of '935

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

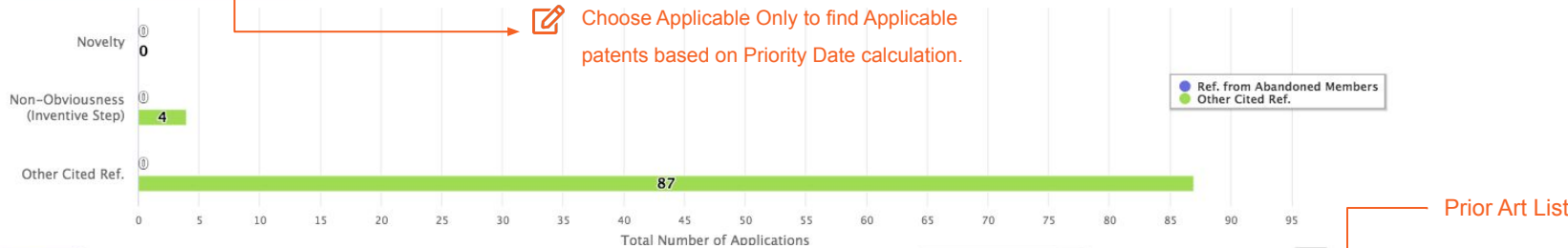
Simple Family **3** Backward Citation: Patent **93** Backward Citation: Non-Patent Literature **2**

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

All References (93) **Applicable Only (91)**



KEEP Mode

Ranked By: Appl. Date | [Search] [Filter] [Edit] [Print] [Export] [List] [Table] [Menu]

<input type="checkbox"/>	↑	#	Patent No.	Title	Legal Status	# of Claim	# of Independent Claim	Appl. Date	Pub./Issue Date	Assignee (Std)
<input type="checkbox"/>		1	US4066964A	Communication system	Expired			1967-01-06	1978-01-03	ROCKWELL INTERNAT
<input type="checkbox"/>		2	US4255742A	Data communication code	Expired			1979-06-07	1981-03-10	FORD MOTOR CO
<input type="checkbox"/>		3	US4763592A	Radio controlled boat lift	Lapsed			1987-03-19	1988-08-16	RUSS LARRY

[Prior Art List](#)

Semantic Prior Art

Semantic Prior Art of 935

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 3 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"/>		1	US20060132284A1	<input checked="" type="checkbox"/>	Remote control and monitoring of barrier o...	PGPub - Granted			2005-12-13	2006-06-22	OVERHEAD DOOR CO
<input type="checkbox"/>		2	US7173514B2	<input checked="" type="checkbox"/>	Operator for a movable barrier and method ...	Abandoned			2004-09-10	2007-02-06	WAYNE-DALTON COR
<input type="checkbox"/>		3	US6081203A	<input checked="" type="checkbox"/>	Code learning system for a movable barrier...	Abandoned			1998-03-13	2000-06-27	THE CHAMBERLAIN (
<input type="checkbox"/>		4	US7327249B1	<input checked="" type="checkbox"/>	Barrier operator system having multiple fre...	Abandoned			2004-06-24	2008-02-05	WAYNE-DALTON COR
<input type="checkbox"/>		5	US6414587B1	<input checked="" type="checkbox"/>	Code learning system for a movable barrier...	Abandoned			1999-11-19	2002-07-02	THE CHAMBERLAIN (
<input type="checkbox"/>		6	US8544523B2	<input checked="" type="checkbox"/>	Automatic barrier operator system	Expired			2010-04-30	2013-10-01	OVERHEAD DOOR CO

Semantic Prior Art of '935

Review potential prior art ranked by concept similarity

US9483935B2 [↗](#)

Channel-switching remote controlled barrier opening 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 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

A remote controlled barrier opening system, comprising: a transmitter configured to: (a) switch an output frequency to different channels, the switching being performed at a transmitter-switching rate, and (b) on each of the channels, transmit multiple copies of a message; a receiver configured to: (a) switch a reception frequency to the different channels at a receiver scan rate that is different from the transmitter-switching rate, and (b) on each of the channels, receive data for a period of time greater than a transmission time of one copy of the message; and a barrier operator configured to operate a device at least in part in response to receipt of a copy of the message on any



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?

16.01
16.02
16.03
16.04
16.05
16.06
16.07
16.08

Find 51 Result(s) | Disclosure Rate 66%

✎ ☰ ☰

Claim Element

#16.04 (a) switching a transmitter to different channels.

Keyword List ⓘ

- transmitter (182) FW PA
- switching (40) FW PA
- switch
- switches
- switched
- Switch
- channels (0)

US7057494B2 Content

Specification

[0002] A barrier moving operator usually comprises a barrier moving unit, or opener, such as a controlled motor, and intelligent activation and safety devices. The opener is typically activated in response to an access code transmitted from a remote transmitter. RF signaling is the most common means of transmitting the access codes.

[0003] Many barrier moving systems, for example, garage door operators use codes to activate the system which change after each transmission. Such varying codes, called rolling codes, are created by the transmitter and acted on by the receiver, both of which operate in accordance with the same method to predict a next access code to be sent and received. A known rolling type access code includes four portions, such as a fixed transmitter number identification portion, a rolling code portion, a fixed transmitter type identification portion, and a fixed switch identification portion. The fixed transmitter identification is a unique transmitter identification number. The rolling portion is a number that changes every transmission in order to confirm that the transmission is not a recorded transmission. The type identification is used to notify the barrier moving operator of the type and features of the transmitter. The switch identification is used to identify which switch on the transmitter is being pressed. There are systems where the function performed is different depending on which switch is pressed.

[0004] When the garage door operator is installed, the homeowner receives at least one handheld transmitter that is already trained into the operator. In order to operate the door from a new learning transmitter, there is a two-step learning procedure for training the new learning transmitter. First step is to teach the learning transmitter the type and potentially the code of the owner's handheld transmitter. While holding the handheld transmitter a few inches from the learning transmitter, pressing and holding the handheld transmitter's button active and at the same time pressing the button on the learning transmitter, the owner teaches the access code type and frequency to the learning transmitter. The second step of the learning process is to train the learning transmitter to the operator. To do this, the learn button on the overhead operator has to be pressed, and within 30 seconds the learning transmitter should be activated.

✎ Answer the question:
What does this prior art say about the Claim elements: “switch”, “transmitter” ?

✎ 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 - '494	3rd Degree Citation Prior Art - B
1	A remote controlled barrier opening system, comprising:	Refer to Claim Analysis results	50%	.....
	a transmitter configured to:		N/A	.....
	(a) switch an output frequency to different channels,	.....	0%	.....
	the switching being performed at a transmitter-switching rate,	.....	N/A	.....
	and (b) on each of the channels, transmit multiple copies of a message;	.....	0%	
	a receiver configured to:	.....	N/A	.....
	(a) switch a reception frequency to the different channels at a receiver scan rate that is different from the transmitter-switching rate,	.....	20%	
	and (b) on each of the channels, receive data for a period of time greater than a transmission time of one copy of the message;	.....	20%	
	and a barrier operator configured to operate a device at least in part in response to receipt of a copy of the message on any of the different channels.		25%	

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(b)

(Pre-AIA) § 102(b)

(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 - '935

1 Prosecution & 1 Post-Grant*

Event History

2

Family Status

3 Applications

Prior Art Status

371 Applications / **2** NPL References

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

TD

Appl. Date
2015-02-05

Issue Date
2016-11-01

Estimated Exp. Date
2029-05-27

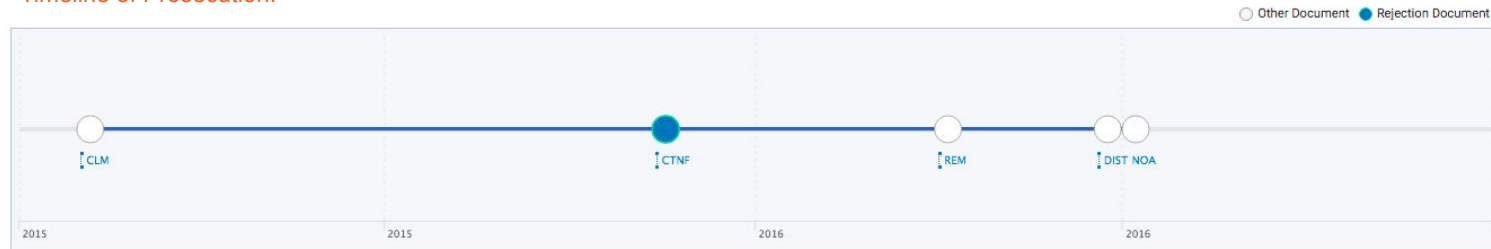
- Case No.: 337-TA-1209
Date: 2020-08-10
Status: Order
Status Date: 2021-05-10



Legend

Document Code	Document Description
CLM	Claims
CTNF	Non-final rejection
REM	Remarks
DIST	Terminal Disclaimer Filed

Timeline of Prosecution:



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

Key Events - '935

Prosecution History

14/615193 Prior Art Ref. | 4 Ref.

Check prior art cited and the legal basis of these challenges

Double Patenting 2 Ref.

[US08970345](#) [US8581695](#)

§ 102 0 Ref.

§ 103 2 Ref.

[US20070152798 \(1st\)](#) [US20060181428](#)
Witkowski Blaker

Summary of 14/615193 History | 5 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: 2021-08-20

Descriptions (Code)	Date	Prior Art Ref.
Notice of Allowance (NOA)	2016-07-07	
Terminal Disclaimer Filed (DIST)	2016-06-23	
Applicant Arguments/Remarks Made in an Amendment (REM) Claims (CLM)	2016-04-05	
Non-Final Rejection (CTNF)	2015-11-17	Grounds 4 ^
Legal Basis	Claims	Prior Art Ref.
double patenting	claim 3,8,10,11,14,18,21,22,25	US08970345
35 U.S.C. § 103	claim 10,11,21,22	Witkowski US20070152798 (1st) Blaker US20060181428
double patenting	claim 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26	US8581695
35 U.S.C. § 101	claim 1,2,3,4,5,6,7,8,9,10,12,13,14,15,16,17,18,19,20,23,24,25,26	
Claims (CLM)	2015-02-05	

Key Events - '935

Post-Grant History

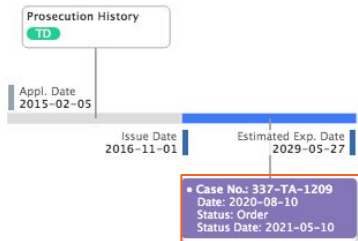
Event History 2	Family Status 3 Applications	Prior Art Status 371 Applications / 2 NPL References
----------------------------------	---	--

Event History | 1 Prosecution History / 1 Post-Grant

of Family Counterparts and Legal Status

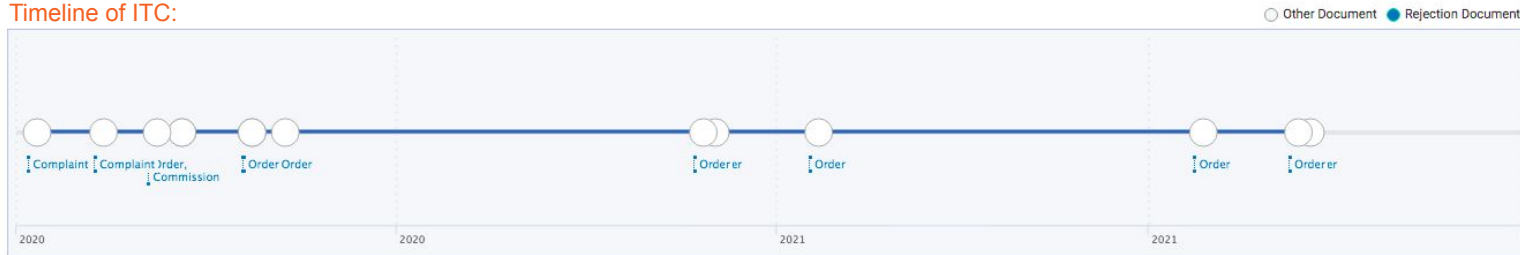
of Highly Relevant Prior Art References

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



Click to view each event in summary and details of ITC

Timeline of ITC:



Key Events - '935

Post Grant History

337-TA-1209 Prior Art Ref. | 0 Ref.

Check prior art cited and the legal basis of these challenges

Double Patenting | 0 Ref.

§ 102 | 0 Ref.

§ 103 | 0 Ref.

Summary of 337-TA-1209 History | 14 Event(s)

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

Data Last Updated on: 2021-08-20

Descriptions (Code)	Date	Prior Art Ref.
Order	2021-05-10	
Order	2021-05-07	
Order	2021-04-14	
Order	2021-01-11	
Order	2020-12-17	
Order	2020-12-14	
Order	2020-09-04	
Order	2020-08-27	
Order	2020-08-27	
Order	2020-08-10	
Order	2020-08-10	
Order, Commission	2020-08-04	

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

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

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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 ↓

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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.

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 top of the document view shows 'U9026311B2 - CTNF (2015-03-19)' and '13/284,674'. The document text includes:

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).

On the right side of the interface, a rejection text is displayed, including:

103(a) as being unpatentable over Grant et al. US 2008/0303792 A1 (previously cited and ... PAGE 5 ...
 Application/Control Number: 13/284,674 Page 4
 Art Unit: 2867
 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 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 [0005], [0005], [0006], [0006], [0022], [0023], [0027], and [0071], e.g., flexible surface, flexible circuit, and capacitance touch [0005] 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 [0005] comprising drive or sense electrodes made of flexible conductive material.
 However, Hotelling does teach a touch [0005] (Fig. 2a, 5 and the corresponding descriptions, and the Summary of the Invention, i.e., a touch [0005] 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).
 ... PAGE 6 ...
 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 [0005] 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