



Patentcloud Quality Insights Annotation Report Brita LP v. Ecolife Technologies, Inc. et al ITC-337-TA-3588

Focus on: U.S. Pat. No. 8,167,141 Filing date: Dec. 23, 2021

Table of contents

Click on a page number to read

Claim Construction and § 112 Invalidity

Map claims to specification and file wrapper	<u>3</u>
§ 102 and § 103 Invalidity	
Prior Art Finder	<u>10</u>
Family Prior Art	<u>12</u>
Semantic Prior Art	<u>14</u>
Comparison tools	<u>17</u>
Prior art downloads	<u>20</u>

Organized Prosecution and PTAB History

View key events	<u>22</u>
Searchable file wrapper	<u>27</u>
PDF downloads	<u>29</u>
Side-by-side PDF and OCR	<u>31</u>

Map claims to specification and file wrapper

Map claims to specification - '141

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 Ξ F Click to Select Terms 2 38 Terms Identified in This Claim Select Text Claim#1 A gravity-fed water filter, comp Highlight text from within the claim with your cursor and click on the tooltip "Select Terms" to filter media including at least activated carbon and a lead scavenger wherein find references in the Specification. the filter achieves a Filter Rate and Performance (FRAP) factor of about 350 or less according to the following formula: F R A P = [V * f * ce][L * 2] where: V=volume of the filter media (cm3), f=average filtration unit time over lifetime L (min/liter), ce=effluent lead concentration at end of lifetime L when source water having a pH of 8.5 contains 90-120 ppb (µg/liter) soluble lead and 30-60 ppb (µg/liter) colloidal lead greater than 0.1 µm in diameter, and L=filter usage lifetime claimed by a manufacturer or seller of the filter (gallons). Claim Analysis finds these terms in the spec:

"*activated carbon*", "*lead scavenger;*", "*Filter Rate*", "*FRAP*", as well as other terms that are highlighted in red.

Map claims to specification - '141

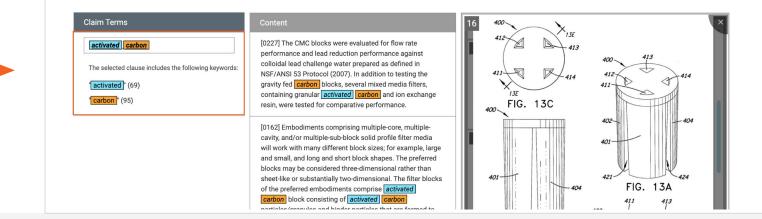
Which claim terms are or are not in the specification?

Select Text	Claim# 1
Highlight text from within the claim with your cursor and click on the tooltip "Select Terms" to	A gravity-fed water filter, comp Select Terms
find references in the Specification.	filter media including at least activated carbon and a lead scavenger, wherein
	the filter achieves a Filter Rate and Performance (FRAP) factor of about 350 or less according to the following formula:
	F R A P=[V*f*ce][L*2]where:
	V=volume of the filter media (cm3), f=average filtration unit time over lifetime L (min/iter), ce=effluent lead concentration at end of lifetime L when source water having a pH of 8.5 contains 90-120 ppb (µg/iter) soluble lead and 30-60 ppb (µg/iter) colloidal lead greater than 0.1 µm in diameter,
	and L=filter usage lifetime claimed by a manufacturer or seller of the filter (gallons).

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

Selected elements of '141 Claim 1 Selected elements of Claim '1 in Spec

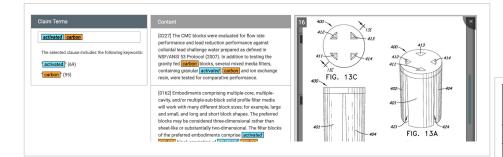
Figures of '141





Map claims to specification and Complaint - '141

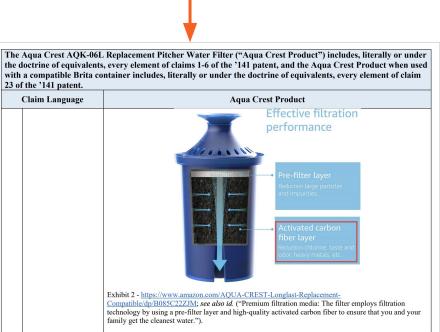
Does the allegedly infringing product element fall within or outside the patent's scope?



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

Answer the question:

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





Map claims to the file wrapper - '141

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

Disclosure Rate by Prior Art



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 2 3 4 5 6 SWITC

3456 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 an	ts only					
	Claims				Prio	r Art Ref. (8)			
		US6200483	US2006/0000763	US6405875	EP345381	US2008/0110820	US6524477	POSITA	OTHER REFERENCE
	<u>#1.01</u> (100%)	<u>100%</u>	<u>100%</u>	<u>100%</u>	<u>100%</u>	<u>100%</u>	<u>100%</u>	<u>0%</u>	<u>100%</u>
	<u>#1.02</u> (100%)	<u>100%</u>	<u>100%</u>	<u>100%</u>	<u>100%</u>	<u>100%</u>	<u>66%</u>	<u>100%</u>	<u>100%</u>
	<u>#1.03</u> (100%)	<u>100%</u>	<u>100%</u>	<u>100%</u>	<u>100%</u>	<u>100%</u>	<u>100%</u>	<u>60%</u>	<u>100%</u>
+	<u>#1.04</u> (0%)	0%	<u>0%</u>	0%	0%	0%	0%	<u>0%</u>	0%
by Prior Art	<u>#1.05</u> (100%)	<u>100%</u>	<u>100%</u>	76%	<u>92%</u>	<u>100%</u>	<u>0%</u>	<u>100%</u>	<u>100%</u>

Disclosure Rate by Prior Art



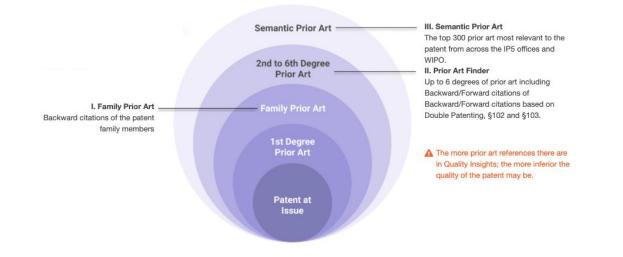
Map claims terms to the file wrapper - '141

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

			Prio	or Art Ref. (8)			۲
us6200483	US2006/0000763	US6405875	EP345381	US2008/0110820	US6524477	POSITA	OTHER REFERENCE
100%) <u>100%</u>	100%	100%	100%	100%	100%	05	100%
00%) <u>100%</u>	100%	100%	1005	100%	100%	60%	100%
s) <u>05</u>	0%	0%	05	0%		08	100.5
0%) <u>028</u> 0%) <u>1005</u>	100%	76%	92%	100%	05	100%	100%
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How does Quality Insights generate prior art?



← Go back to the outline

Prior Art Finder

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ior Art Find			-		the	first to the sixth degre	e		Filter by: • Applic • Legal • Paten • Legal	Basis (§102 or §103) t Office	
1st Degree Art					2nd D	egree Art			N Degree Art		
N Degree Art Extend forward/backward citations from Ø Discover prior art's similarity with claim cl											
KEEP Mode			2200				Ranked By : Legal I	Basis (§102 first			⊗ 1 🗄 ≡
US8167141B2	6th L	Degree	List #	Patent No.		Title	Legal Status 👔	Appl. Date	Pub./Issue Date	Assignes (Std)	Applicability
1st Degree (7) US6200483B1 US20060000763A1		Ŧ	1	<u>US20030147925A1</u>	¢	TOPICAL DERMAL ANTIMICROBIAL COMP	Abandoned Appl.	1999-09-09	2003-08-07	MANIVANNAN GURUSAMY	(Pre-AIA) § 102(a) (Pre-AIA) § 102(e)(1)
US20180099238A1 US20080110820A1 US20140110325A1			2	<u>US6959820B2</u>	G	Microporous filter media, filtration systems	Active	2003-05-20	2005-11-01	KOSLOW EVAN E	(Pre-AIA) § 102(e)(2
US20150041390A1 US20160121249A1			3	<u>US5019311A</u>	ø	Process for the production of materials cha	Expired	1989-12-22	1991-05-28	KOSLOW TECHNOLOGIES C	(Pre-AIA) § 102(a) (Pre-AIA) § 102(b) (Pre-AIA) § 102(e)(2)
2nd Degree (17)			4	US20100006507A1	¢	WATER TREATING METHODS	PGPub - Granted	2009-05-13	2010-01-14	PUR WATER PURIFICATION	(Pre-AIA) § 102(e)(1)
3rd Degree (20) 4th Degree (20)			5	<u>US7712613B2</u>	¢	Water filter materials and water filters cont	Expired	2008-09-16	2010-05-11	PUR WATER PURIFICATION	(Pre-AIA) § 102(e)(2)
 <u>5th Degree (20)</u> 			6	US6852312B2	Ø	Biocidal polystyrene hydantoin particles	Lapsed	2002-10-15	2005-02-08	AUBURN UNIVERSITY	(Pre-AIA) § 102(e)(2
h Degree <u>6th Degree</u>			7	US7144533B2	¢	Microporous filter media, filtration systems	Active	2003-05-20	2006-12-05	KOSLOW TECHNOLOGIES C	(Pre-AIA) § 102(e)(2)

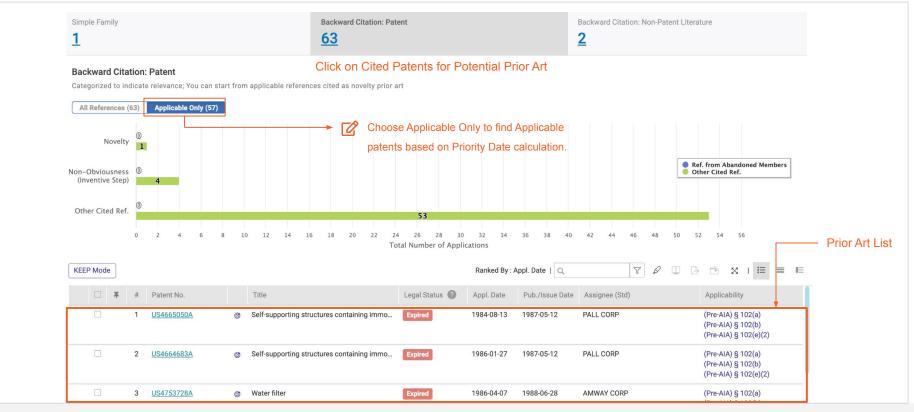
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Family Prior Art



Family Prior Art of '141

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



← Go back to the outline

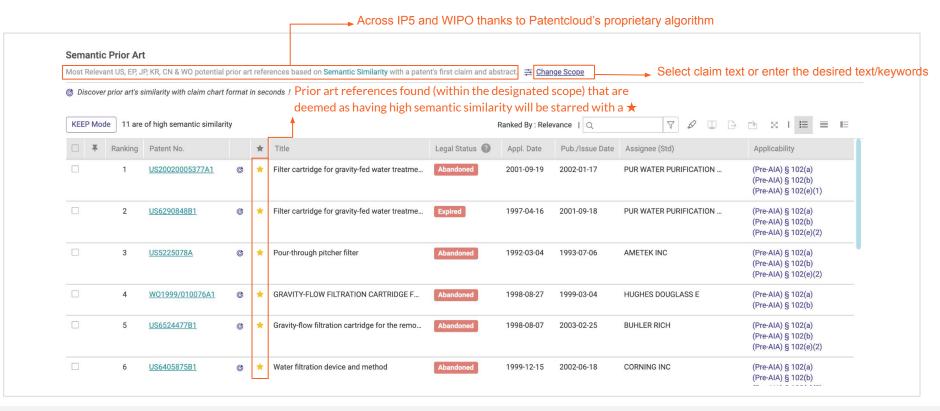
Semantic Prior Art

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Semantic Prior Art of '141

Review potential prior art ranked by concept similarity





Semantic Prior Art of '141

Review potential prior art ranked by concept similarity

US8167141B2 🗹 Gravity flow filter		
Overview History Claim Analysis (Claim Insights Family Prior Art Prior Art Finder Semantic F	Prior Art File Wrapper Search
		① About Semantic Prior Art
Semantic Prior Art Most Relevant US, EP, JP, KR, CN & WO potential prior art re	ferences based on Semantic Similarity within the scope below. C ^a Reset to Default	
Enter text to start searching for semantic prior art (Englis	ih 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 gravity-fed water filter, comprising: filter media including at least activated car and a lead scavenger, wherein the filter achieves a Filter Rate and Performance factor of about 350 or less according to the following formula: F R A P = [V*	(FRAP)
] [L * 2] where: V=volume of the filter media (cm ³), f=average filtration unit time	e over
	lifetime L (min/liter), ce=effluent lead concentration at end of lifetime L when so water having a pH of 8.5 contains 90-120 ppb (μ g/liter) soluble lead and 30-60 p (μ g/liter) colloidal lead greater than 0.1 μ m in diameter, and L=filter usage lifetin	adding text from claims to find

← Go back to the outline

Comparison tools



Prior Art Comparison (claim chart format)

What does this prior art say about the critical elements?

Claim Element	US6290848B1 Content	
 #1.02 [filter media including at least activated carbon and a lead scavenger; wherein Keyword List () filter media (15) FW PA activated carbon (6) FW PA scavenger (0) FW 	Claims Cl	particulate filter media filter to a portion of the n a pressure of about
	Claim# 24 The fine outridge of dam 22, wherein the porces particulate inter comprises direct intermedia. Claim# 26 A filter cartridge for a gravity - fed water treatment device, comprising : a hydrophilic, porous particulate filter havin an interior volume , the sidewalls being configured and arranged to allow passage of water by the force of gravity, thereby treat granular filter media disposed in the interior volume ; and a member sealingly connecting the filter to a portion of the filter car separating untreated water from treated water .	ating the water ;

What does this prior art say about the Claim elements: "activated carbon"?

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 - '848	3rd Degree Citation Prior Art - B
	A gravity-fed water filter, comprising:	Refer to Claim Analysis results	0%	
	filter media including at least activated carbon and a lead scavenger; wherein		66%	
	the filter achieves a Filter Rate and Performance (FRAP) factor of about 350 or less according to the following formula:		33%	
1	F R A $P = [V * f * c e][L * 2]$ where:		0%	
	V=volume of the filter media (cm3), f=average filtration unit time over lifetime L (min/liter), ce=effluent lead concentration at end of lifetime L when source water having a pH of 8.5 contains 90-120 ppb (μ g/liter) soluble lead and 30-60 ppb (μ g/liter) colloidal lead greater than 0.1 μ m in diameter,		21%	
	and L=filter usage lifetime claimed by a manufacturer or seller of the filter (gallons).		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

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Prior Art downloads

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Prior Art downloads

Select all

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			BE 2 Active Coccesso Dile unit Export	sible Until 2020-0	Export Type: Export Items:	 Patent List (Excel) Patent List (Selected Patents 	CSV) 🔿 Full Text (PDF)	O Front Page (PDF)	
C	Overvi	iew	Claim Analysis	Claim Insi	Export Fields:	Customized O All Fields		Save as my defa	ult settings.
					Patent Field:	Appl. No.	🗌 Appl. No. (PTO)	Appl. Date	1
		#	Patent No.	Title	Earliest Appl.	✓ Title	Title (English)	Patent No.	iy.
		1	CN1247662A	Dual use spea	Patent No. (PT	D) Dub./Issue Date	Pub. No.	Pub. Date	102(e)(1)
	•	2	EP0998105B1	Mobile telepho	File Name:	Patentlist-Patentcloud			102(e)(1)
	•	3	JPH09-036932A	EXTERNAL RI					102(a) 102(b)
	•	4	JPH11-055358A	MOBILE RADI				Cancel	Export 102(a) (Pre-AIA) 9 ⁻¹ 102(b)
	Y	5	US5317622	Ringing circuit	for use in a telephone set	f Abandoned 1994-05-5	31 1993-02-23	NEC CORP	(Pre-AIA) § 102(a) (Pre-AIA) § 102(b) (Pre-AIA) § 102(e)(2)

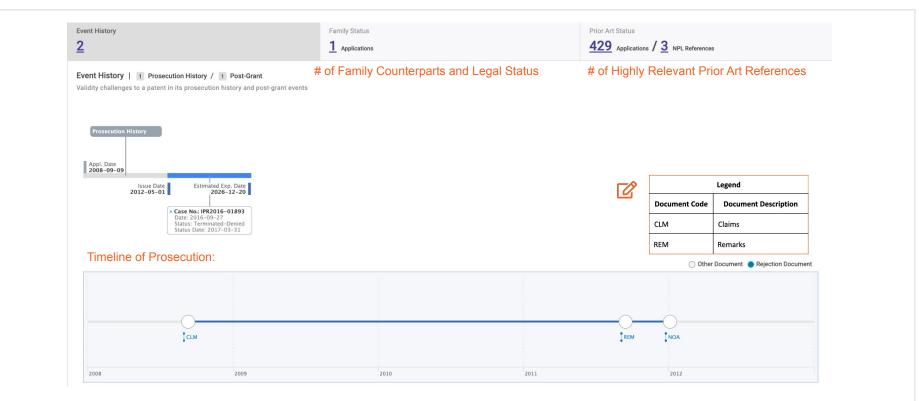
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Download patent data in Excel or PDF format for Family Prior Art, Second Degree Prior Art, and/or Semantic Prior Art.

Prosecution and PTAB History Key Events

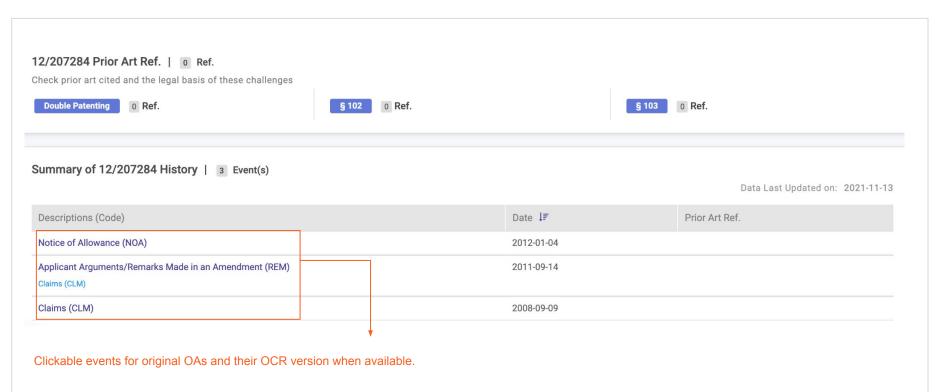


1 Prosecution & 1 Post-Grant





Prosecution History



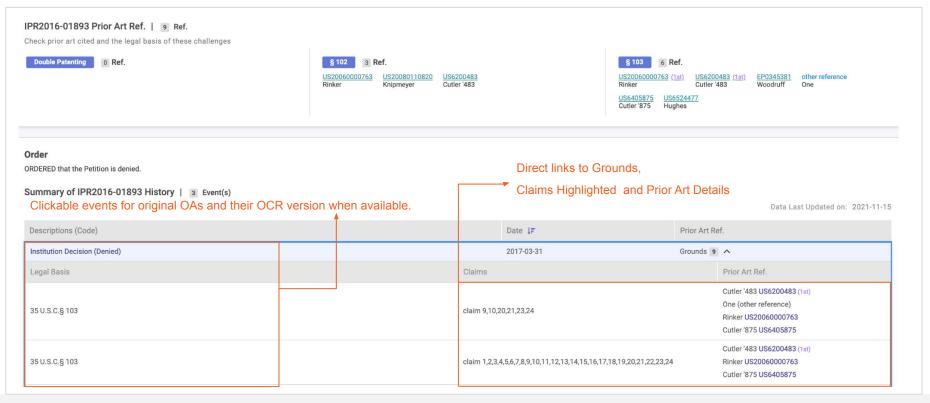


Post-Grant History





Post-Grant History



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. (i) About File Wrapper Search Cross-Document 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 Descriptions (Code) Party Date 🕜 Notice of Allowance (NOA) USPTO 2015-09-24 Applicant Arguments/Remarks Made in an Amendment (REM) Applicant 2015-06-19 Non-Final Rejection (CTNF) USPTO 2015-03-19 Request for Continued Examination (RCEX) Applicant 2015-03-03 Applicant Arguments/Remarks Made in an Amendment (REM) 2015-03-03 Applicant Final Rejection (CTFR) USPTO 2014-11-03 Applicant Arguments/Remarks Made in an Amendment (REM) 2014-10-15 Applicant Non-Final Rejection (CTNF) USPTO 2014-07-15 Request for Continued Examination (RCEX) 2014-06-26 Applicant Applicant Arguments/Remarks Made in an Amendment (REM) 2014-06-26 Applicant Final Rejection (CTFR) USPTO 2014-02-26 Applicant Arguments/Remarks Made in an Amendment (REM) Applicant 2014-02-07 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		About File Wrapper Search
touch sensor Rejections, Remarks, and Notice of Allowance in Prosecution History 13 Records		
Descriptions (Code)	Party	Date 🕗
Notice of Allowance (NOA)	USPTO	2015-09-24
Applicant Arguments/Remarks Made in an Amendment (REM)	Applicant	2015-06-19
Non-Final Rejection (CTNF)	USPTO	2015-03-19
Request for Continued Examination (RCEX)	Applicant	2015-03-03
Applicant Arguments/Remarks Made in an Amendment (REM)	Applicant	2015-03-03
Final Rejection (CTFR)	USPTO	2014-11-03
Applicant Arguments/Remarks Made in an Amendment (REM)	Applicant	2014-10-15
Non-Final Rejection (CTNF)	USPTO	2014-07-15
Request for Continued Examination (RCEX)	Applicant	2014-06-26
Applicant Arguments/Remarks Made in an Amendment (REM)	Applicant	2014-06-26
Final Rejection (CTFR)	USPTO	2014-02-26
Applicant Arguments/Remarks Made in an Amendment (REM)	Applicant	2014-02-07
Non-Final Rejection (CTNF)	USPTO	2013-11-07

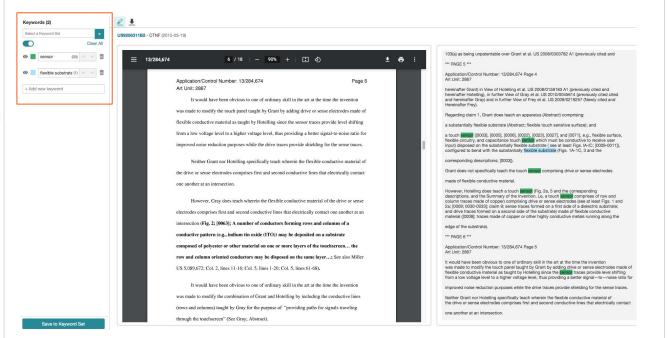
Prosecution and PTAB History Side-by-side PDF and OCR



Side by Side: PDF & OCR

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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.





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