



Quality Insights Annotation Report

XR Communications LLC v. Microsoft Corporation

WDTX-6-21-cv-00695

Focus on: U.S. Pat. No. 10,715,235

Filing date: July 01, 2021

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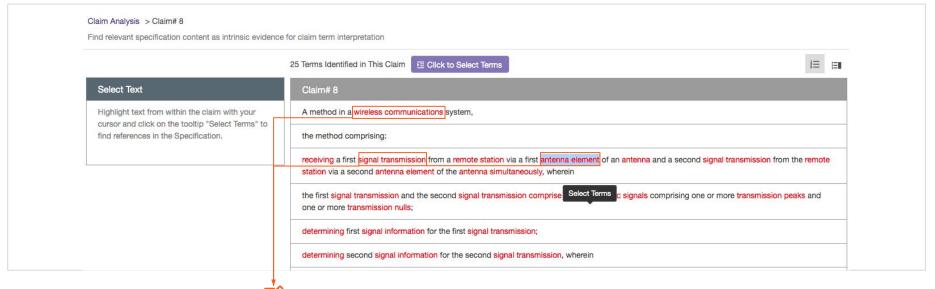
Claim Construction and § 112 Invalidity		Organized Prosecution and PTAB History		
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§ 102 and § 103 Invalidity		PDF downloads		
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Map claims to specification and file wrapper



Map claims to specification - '235

Which claim terms are or are not in the specification?



Claim Analysis finds these terms in the spec: "wireless communications", "signal transmission, "antenna **element**", as well as other terms that are highlighted in red.

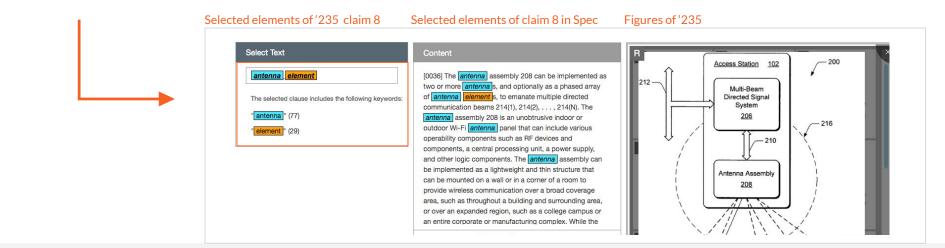


Map claims to specification - '235

Which claim terms are or are not in the specification?



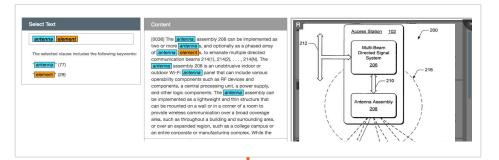
Review the selected claim element and see how it is defined in the patent specification and related figures.





Map claims to specification and Complaint - '235

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?

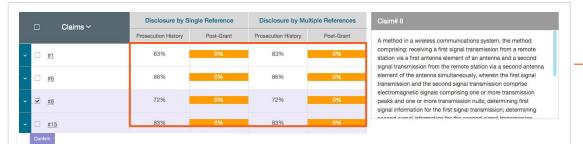
or more transmission peaks and one or more transmission nulls. For example, as with each '235 Accused Product, the Surface Go 2 receives a first signal transmission from a remote station, such as a Wi-Fi Access Point, via a first antenna element of an antenna and a second signal transmission from the remote station via a second antenna element of the antenna simultaneously, such as when the Surface Go 2 receives first and second signals with its first and second antenna elements that contain training fields of a null data packet used for MU-MIMO sounding and channel estimation procedures. For example, the Surface Go 2 includes "IEEE 802.11a/b/g/n/ac/ax" WiFi, see Surface Go 2 Webpage, with "MU-MIMO" support. See Surface Go 2 FAQ. See, e.g., IEEE 802.11ax



Map claims to the file wrapper - '235

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

Disclosure Rate by Prior Art



 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.





Map claims terms to the file wrapper - '235

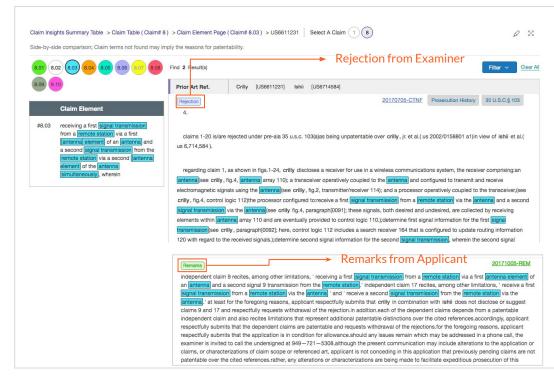
How was this patent challenged during Prosecution?



All of the limitations of this asserted claim element in '235 were 100% known by Crilly (US6611231).

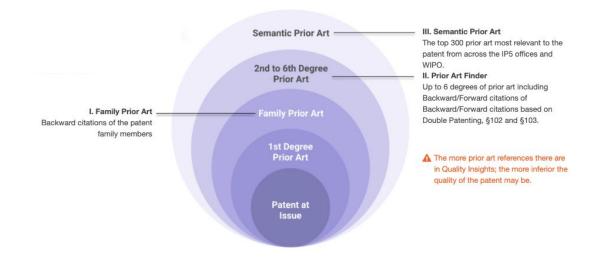
Answer the questions:

How was this patent challenged during Prosecution?





How does Quality Insights generate prior art?

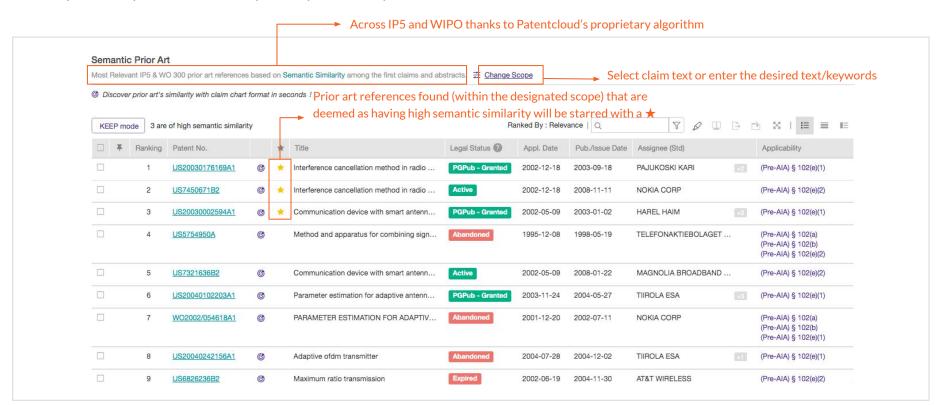


Semantic Prior Art



Semantic Prior Art of '235

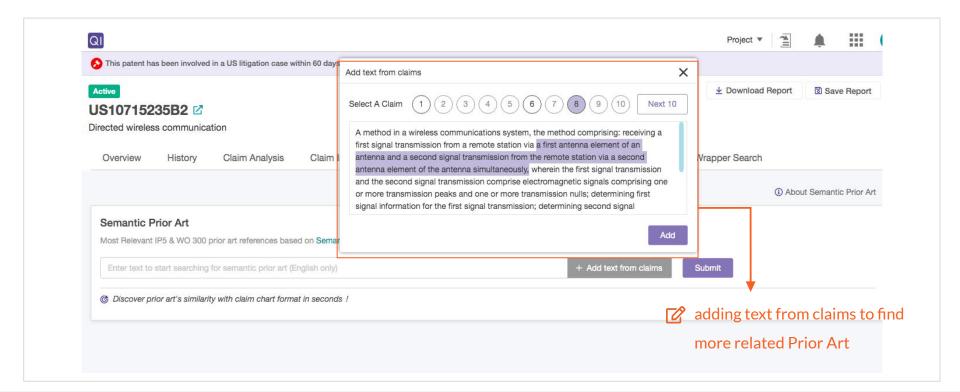
Review potential prior art ranked by concept similarity





Semantic Prior Art of '235

Review potential prior art ranked by concept similarity



Prior Art Finder

Filter by: **Applicability**

2013-03-12

2009-09-29



Prior Art Finder for '235

Legal Basis (102 or 103) Patent Office Review cited and citing patents of '235 from the first to the sixth degree **Legal Status** 1st Degree Art 2nd Degree Art N Degree Art 31 82 N Degree Art Extend forward/backward citations from the Second Degree Art Discover prior art's similarity with claim chart format in seconds ! **I** IE. 0 I B B X 1 Ranked By : Legal Basis (§102 first) | Q KEEP mode 6th Degree List US10715235B2 Patent No. Title Legal Status @ Appl. Date Pub./Issue Date Assignee (Std) 1st Degree (2) Applicability US20120147987A1 METHOD AND APPARATUS FOR DATA T... PGPub - Granted 2011-12-08 2012-06-14 CALDERBANK ARTHUR R... (Pre-AIA) § 102(e) US6611231B2 US20020137538A1 2nd Degree (20) Communication device for receiving and tr... Active US7085223B2 2001-08-23 2006-08-01 SONY INTERNATIONAL E... (Pre-AIA) § 102(e) 3rd Degree (20) 4th Degree (20) Optical/radio local access network Active US8682171B1 2009-06-16 2014-03-25 AT&T INTELLECTUAL PRO... (Pre-AIA) § 102(e) 5th Degree (20) 6th Degree Communication device for receiving and tr... Active SONY DEUTSCHLAND G ... US7633848B2 2005-10-12 2009-12-15 (Pre-AIA) § 102(e) Up to the 6th Methods and apparatus for high data rate ... US5960039A 1996-04-10 1999-09-28 ALCATEL LUCENT (Pre-AIA) § 102(a) Degree List (Pre-AIA) § 102(b) (Pre-AIA) § 102(e)

Minimum mean squared error approach to...

US8396154B2

(Pre-AIA) § 102(e)

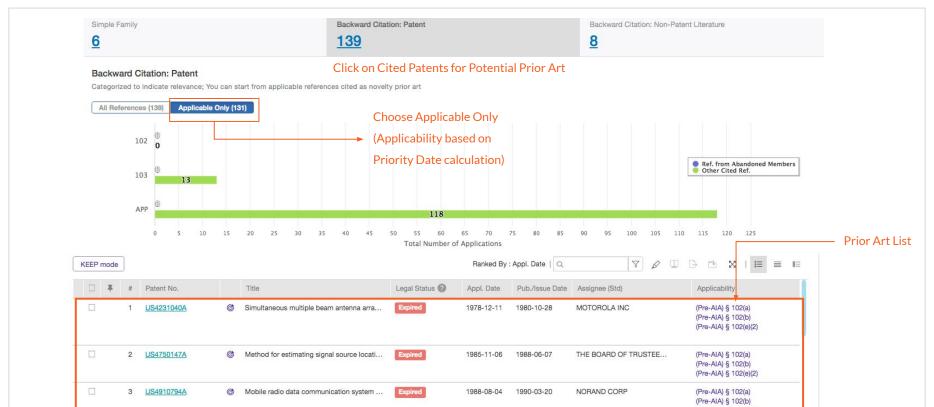
AT&T INTELLECTUAL PRO...

Family Prior Art



Family Prior Art of '235

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

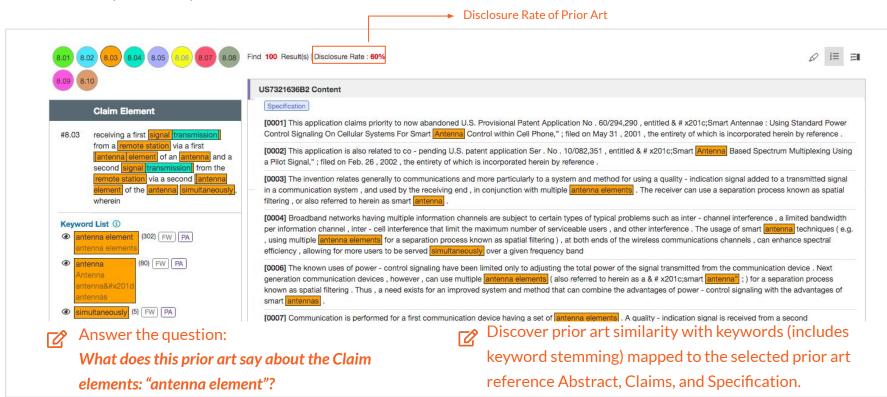


Comparison tools



Prior Art Comparison (claim chart format)

What does this prior art say about the critical elements?





Prior Art Comparison (sample output)

Easily generate a table like below

	Claim	Claim-Term Interpretation	Semantic Prior Art - '636	3rd Degree Citation Prior Art - B
8	A method in a wireless communications system, the method comprising:	Refer to Claim Analysis results	0%	
	receiving a first signal transmission from a remote station via a first antenna element of an antenna and a second signal transmission from the remote station via a second antenna element of the antenna simultaneously, wherein		60%	
	the first signal transmission and the second signal transmission comprise electromagnetic signals comprising one or more transmission peaks and one or more transmission nulls;		20%	
	determining first signal information for the first signal transmission; determining second signal information for the second signal transmission, wherein the second signal information is different than the first signal information; determining a set of weighting values based on the first signal information and the second signal information, wherein		0%	
	the set of weighting values is configured to be used by the remote station to construct one or more beam-formed transmission signals;		20%	
	and transmitting to the remote station a third signal comprising content based on the set of weighting values.		33%	

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

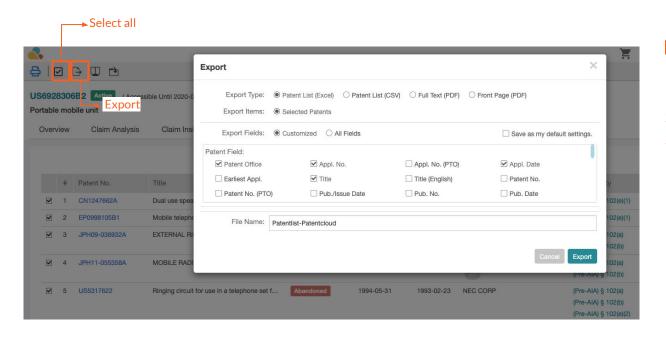
Results from claim to specification and file wrapper mapping

Results from prior art comparison by claim element

Prior art downloads



Prior art downloads





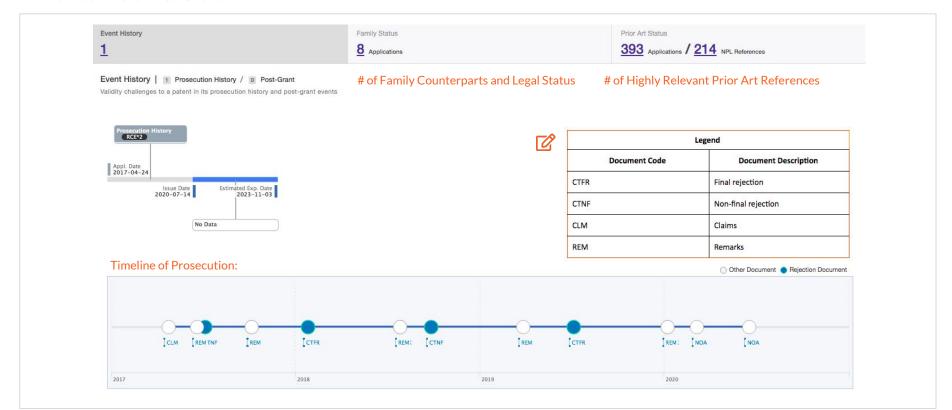
Download patent data in Excel or PDF format for Family Prior Art, Second Degree Prior Art, and/or Semantic Prior Art

Prosecution and PTAB History Key Events



Key Events - '235

1 Prosecution & 0 Post-Grant

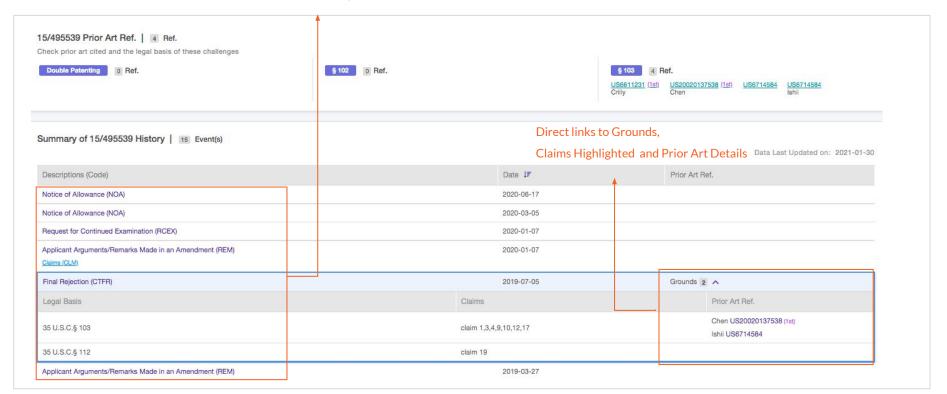




Key Events - '235

Prosecution History

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

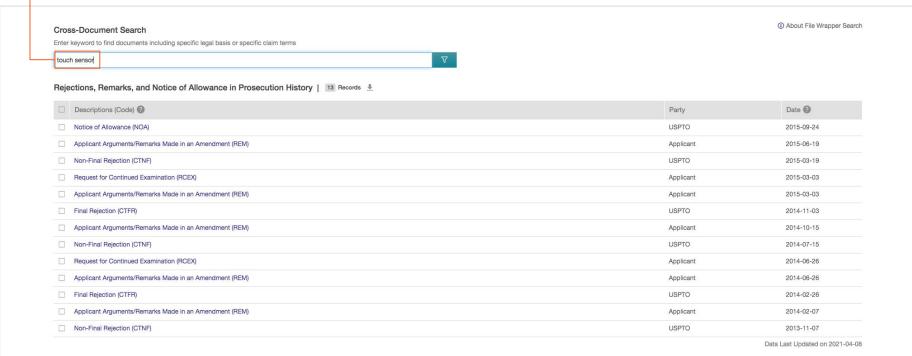


Prosecution and PTAB History Search



Patent File Wrapper Search

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

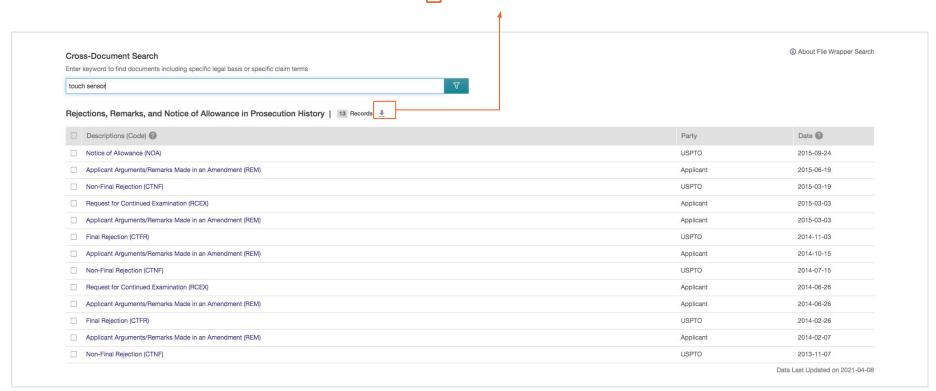


Prosecution and PTAB History PDF Downloads



PDF Downloads

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



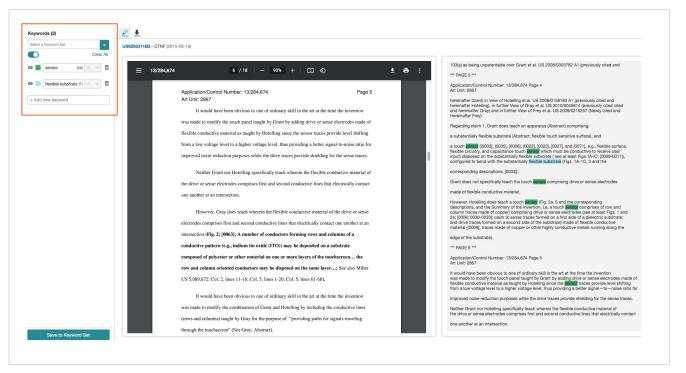
Prosecution and PTAB History Side-by-side PDF and OCR



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.





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