



Patentcloud Quality Insights Annotation Report Bell Northern Research, LLC v. Apple Inc.

WDTX-6-21-cv-00833

Focus on: U.S. Pat. No. 8,204,554

Filing date: Aug. 11, 2021

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Organized Prosecution and PTAB History

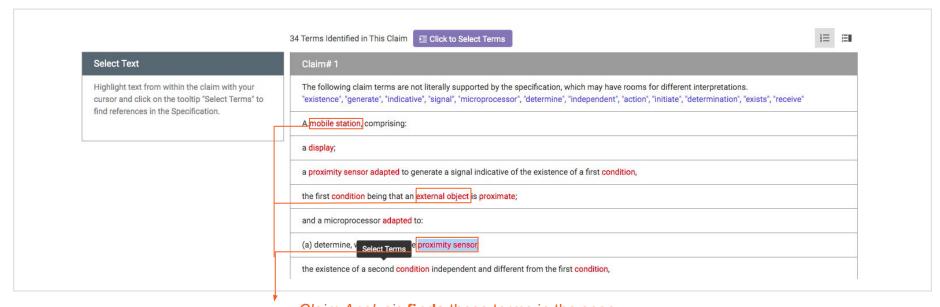
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Map claims to specification and file wrapper



Map claims to specification - '554

Which claim terms are or are not in the specification?

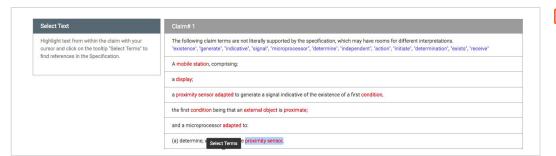


Claim Analysis finds these terms in the spec: "mobile station", "external object", "proximity sensor", as well as other terms that are highlighted in red.

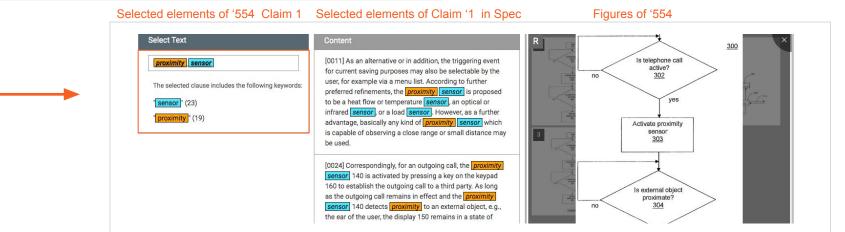


Map claims to specification - '554

Which claim terms are or are not in the specification?



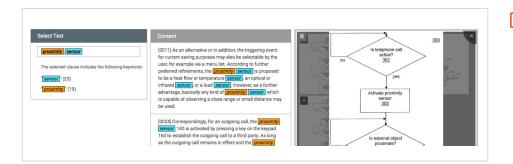
Review the selected claim element and see how it is defined in the patent specification and related figures.





Map claims to specification and Complaint - '554

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?



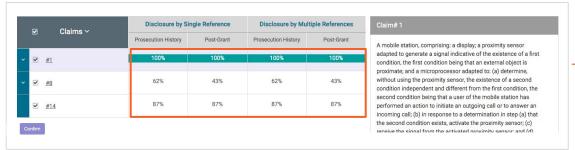
109. The '554 Infringing Products also include a microprocessor that is adapted to determine, without using the proximity sensor, the existence of a second condition independent and different from the first condition, the second condition being that a user of the mobile station has performed an action to initiate an outgoing call or to answer an incoming call. For instance, the Apple iPhone X has a microprocessor that is adapted to determine whether a user has performed an action to initiate or receive a call. See, e.g., https://macreports.com/iphone-proximity-sensor-



Map claims to the file wrapper - '554

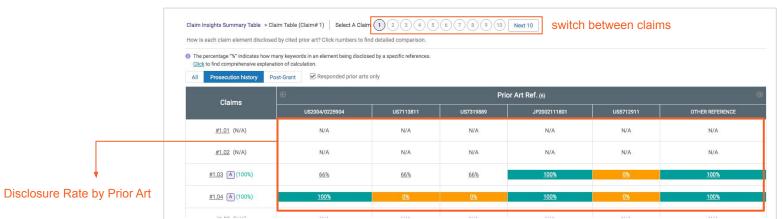
Which claim terms are in the file wrapper(i.e. examiner's opinion)?

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.





Map claims terms to the file wrapper - '554

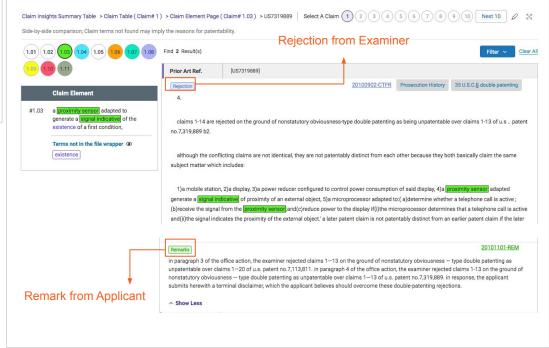
Why was this patent granted? Which claims were amended and how did the scope change?

Claims	⊕ Prior Art Ref. (6)					
Cidina	US2004/0225904	US7113811	US7319889	JP2002111801	US5712911	OTHER REFERENCE
#1.01 (N/A)	N/A	N/A	N/A	N/A	N/A	N/A
#1.02 (N/A)	N/A	N/A	N/A	N/A	N/A	N/A
#1.03 A (100%)	66%	56%	66%	100%	03	100%
<u>#1.04</u> (100%)	100%	0%	Øs.	100%	03	100%
#1.05 (N/A)	N/A	N/A	N/A	N/A	N/A	N/A
#1.06 A (100%)	100%	100%	100%	100%	100%	100%
#1.07 (100%)	0%	0%	0%	100%	0%	100%

All of the limitations of this asserted claim element in '554 were 66% known by (US7319889).

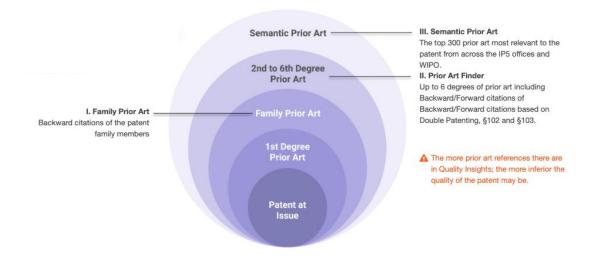
Answer the questions:

Why was this patent granted?





How does Quality Insights generate prior art?



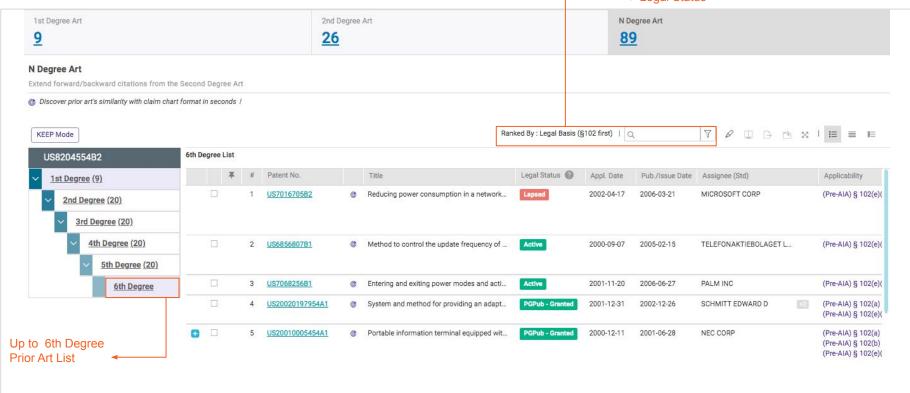
Prior Art Finder



Prior Art Finder for '554

Review cited and citing patents of '554 from the first to the sixth degree

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

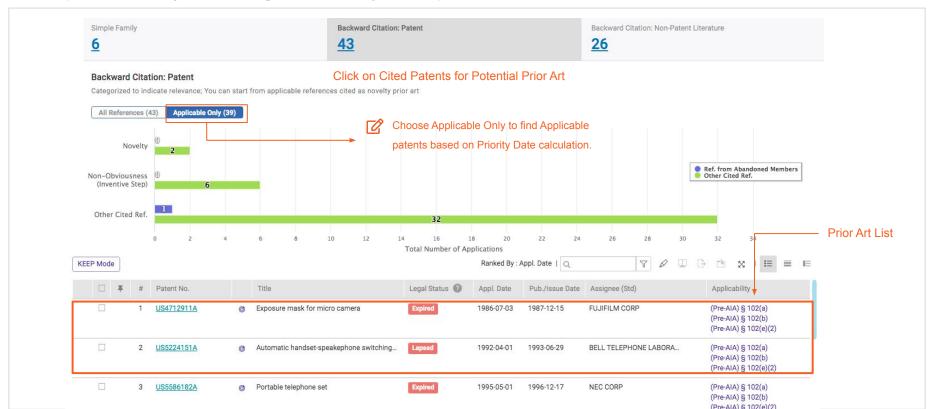


Family Prior Art



Family Prior Art of '554

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

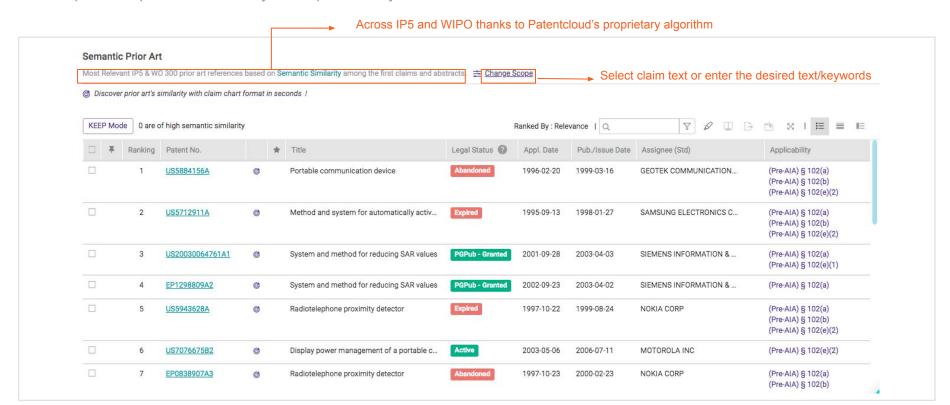


Semantic Prior Art



Semantic Prior Art of '554

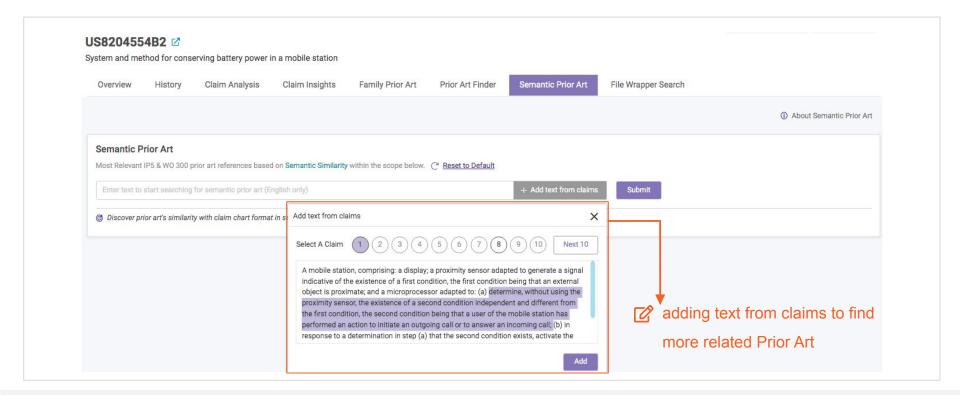
Review potential prior art ranked by concept similarity





Semantic Prior Art of '554

Review potential prior art ranked by concept similarity

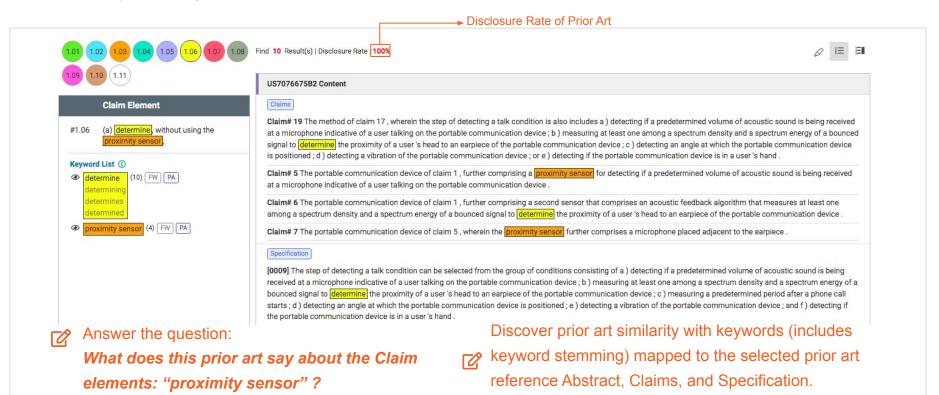


Comparison tools



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 - '675	3rd Degree Citation Prior Art - B
	A mobile station, comprising: a display;	Refer to Claim Analysis results	N/A	
	a proximity sensor adapted to generate a signal indicative of the existence of a first condition,		33%	
	the first condition being that an external object is proximate; and a microprocessor adapted to:		0%	
	(a) determine, without using the proximity sensor,		100%	
1	the existence of a second condition independent and different from the first condition, the second condition being that a user of the mobile station has performed an action to initiate an outgoing call or to answer an incoming call;		0%	
	(b) in response to a determination in step (a) that the second condition exists, activate the proximity sensor;		33%	
	(c) receive the signal from the activated proximity sensor;		100%	
	and (d) reduce power to the display if the signal from the activated proximity sensor indicates that the first condition exists.		80%	

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

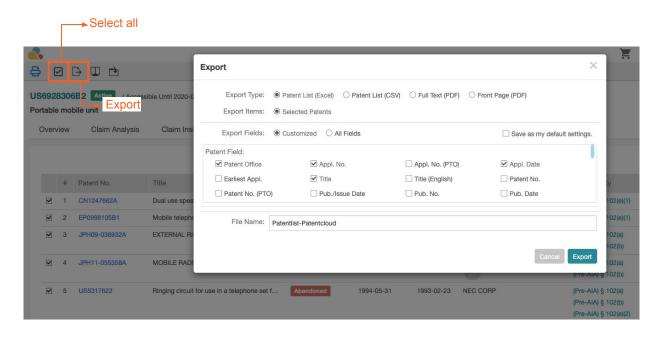
Results from claim to specification and file wrapper mapping

Results from prior art comparison by claim element

Prior Art downloads



Prior Art downloads



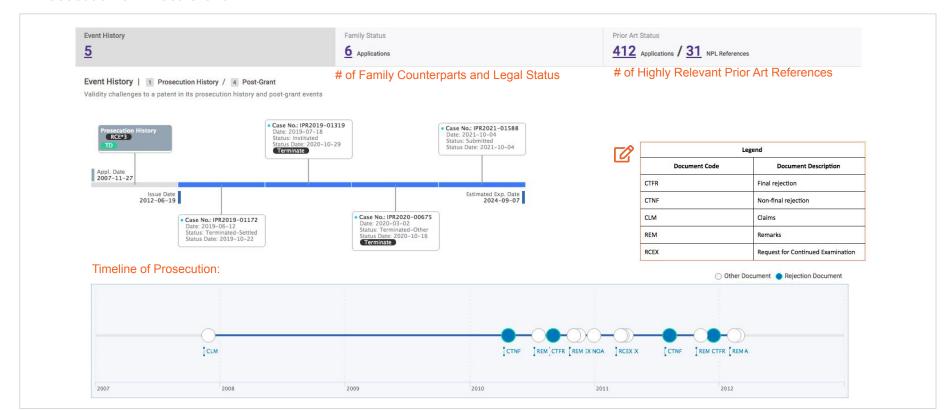


Download patent data in Excel or PDF format for Family Prior Art, Second Degree Prior Art, and/or Semantic Prior Art

Prosecution and PTAB History Key Events

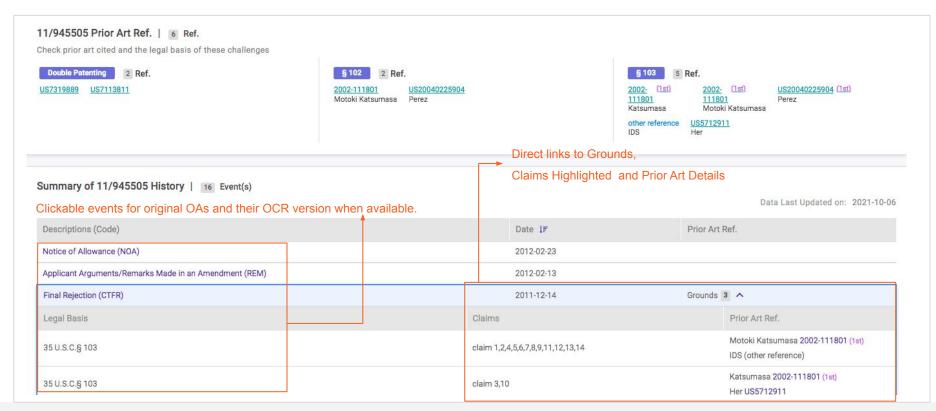


1 Prosecution & 4 Post-Grant





Prosecution History



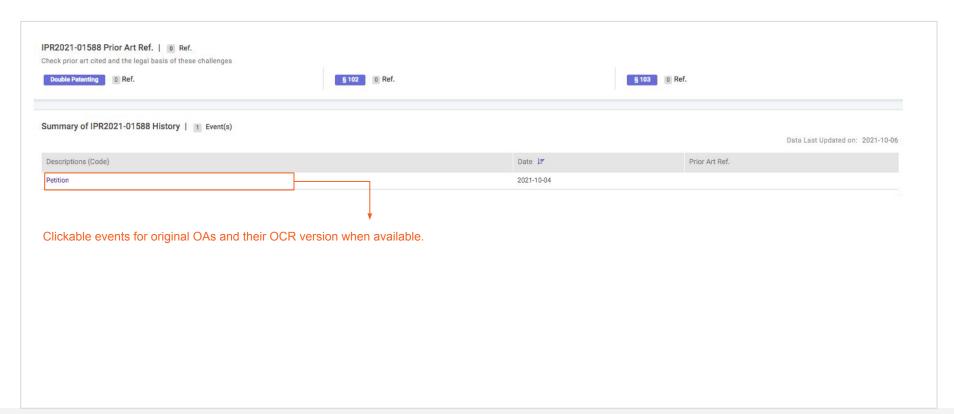


Post-Grant





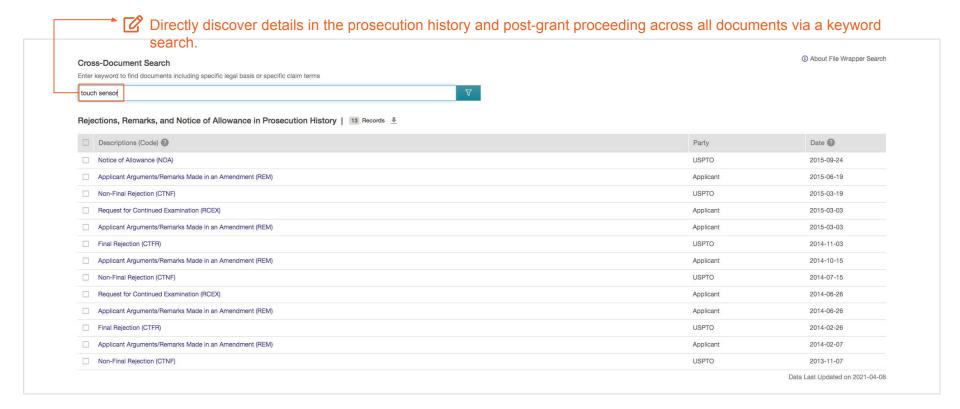
Prosecution History



Prosecution and PTAB History Search



Patent File Wrapper Search

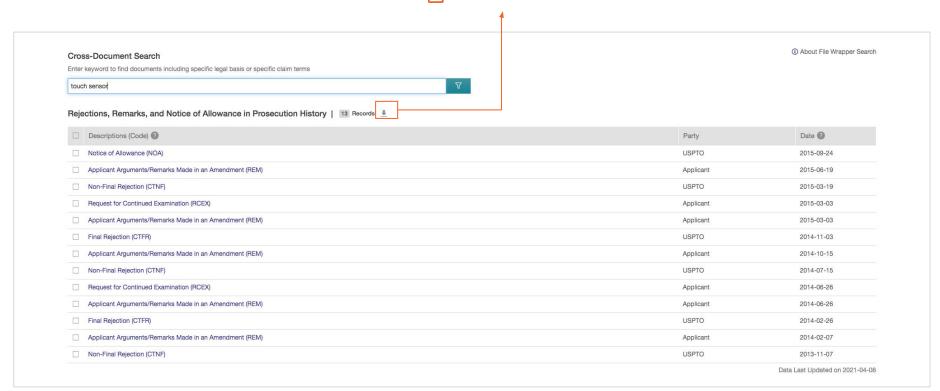


Prosecution and PTAB History PDF Downloads



PDF Downloads

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



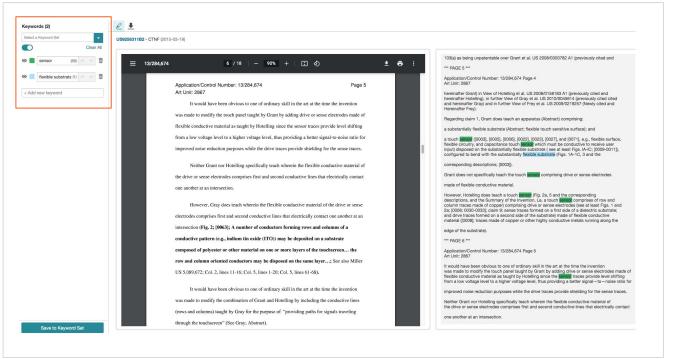
Prosecution and PTAB History Side-by-side PDF and OCR



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