



Patentcloud Quality Insights Annotation Report Cedar Lane Technologies Inc. v. ASUSTeK Computer Inc. WDTX-6-21-cv-01342 Focus on: U.S. Pat. No. 6,972,790 Filing date: Dec. 22, 2021

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Claim Construction and § 112 Invalidity

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Organized Prosecution and PTAB History

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Map claims to specification and file wrapper

Map claims to specification - '790

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

	24 Terms Identified in This Claim 🗵 Click to Select Terms	
Select Text	Claim# 1	
Highlight text from within the claim with your cursor and click on the tooltip "Select Terms" to find references in the	An interface for receiving data from an image sensor having an imaging array and a clock generator for transfer to a processor system comprising:	
Specification.	a memory for storing imaging array data and clocking signals at a rate determined by the clocking signals;	
	a signal generator for generating a signal for transmission to the processor system in response to the quantity of data in the memory;	
	and a circuit for controlling the transfer of the data from the memory at a rate determined by the processor system.	
	<i>Claim Analysis</i> finds these terms in the spec: "imaging array " , " clocking signals ", " signal generator ", <i>as well as other terms that are highlighted in red.</i>	

Map claims to specification - '790

Which claim terms are or are not in the specification?

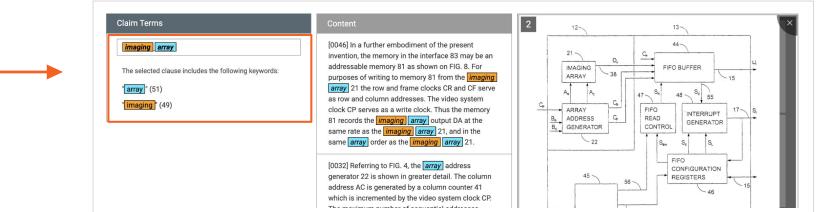
	32 Terms Identified in This Claim 匡 Click to Select Terms	i≡ i≡
Select Text	Claim# 1	
Highlight text from within the claim with your cursor and click on the tooltip "Select Terms" to find references in the Specification.	The following claim terms are not literally supported by the specification, which may have rooms for different interpretations. 'datapoint'	
	A method for predicting an intent of a visitor to a webpage,	
	the method con Select Terms	
	receiving into an intent engine at least one input parameter from a web browser displaying the webpage;	
	processing the at least one input parameter in the intent engine to determine at least one inferred intent;	

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

Selected elements of '790 claim 1

Selected elements of '790 in Spec

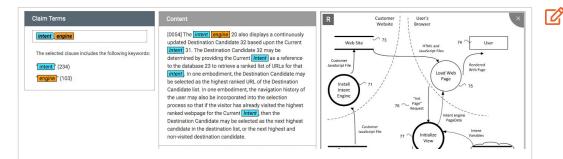
Figures of '790





Map claims to specification - '790

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 compliant.

Answer the question:

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

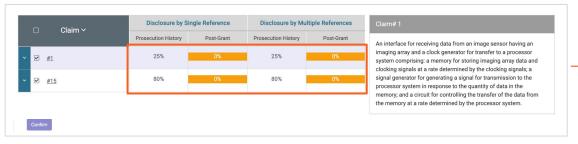
Claim 1	Evidence
a memory for storing imaging array data and clocking signals at a rate determined by the clocking signals;	The ASUS mobile device provides a memory for storing imaging array data and clocking signals at a rate determined by the clocking signals.
	For example, the interface circuitry of the ASUS mobile device includes a buffer module that stores the image data that is received from the image capturing subsystem. The buffer module has control and clock signal inputs. The buffer module clocks its internal and external signals at a rate that is determined by the input clock signals. This enables the buffer module to store the image data at a rate that is in accordance with the pixel clock domain of the image capturing subsystem.



Map claims to the file wrapper - '790

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

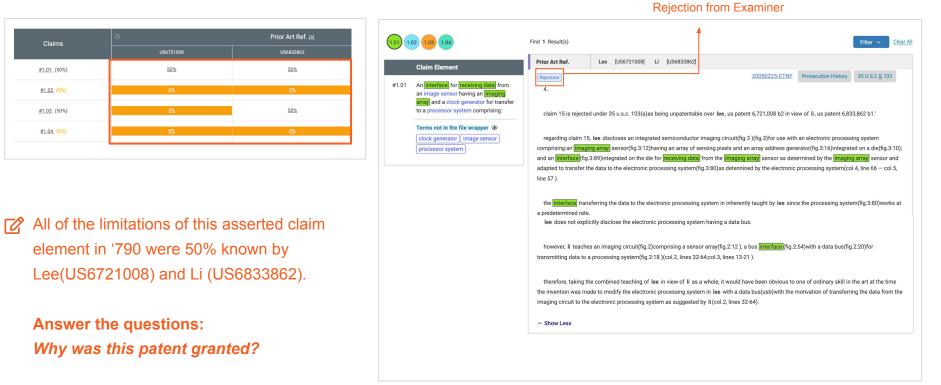
more claim elements were disclosed by the prior art.





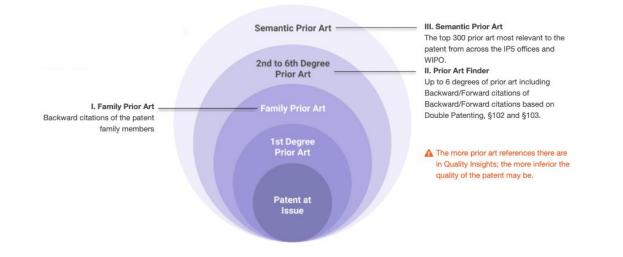
Map claims terms to the file wrapper - '790

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





How does Quality Insights generate prior art?

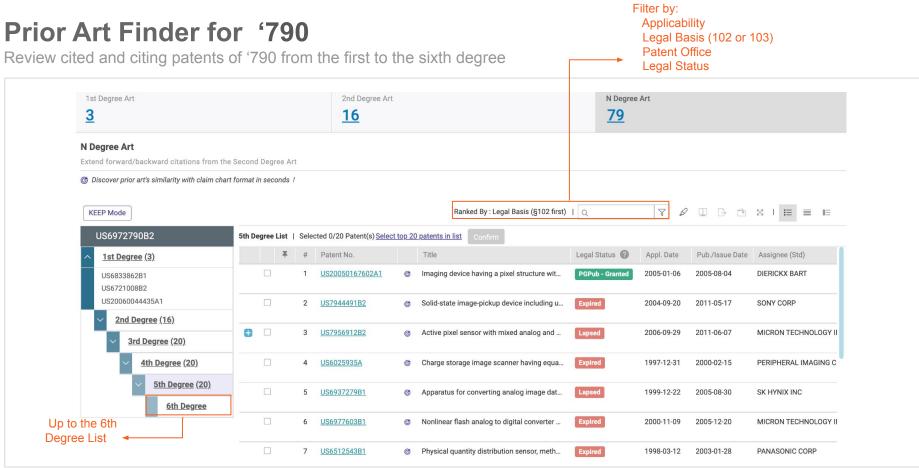


← Go back to the outline

Prior Art Finder

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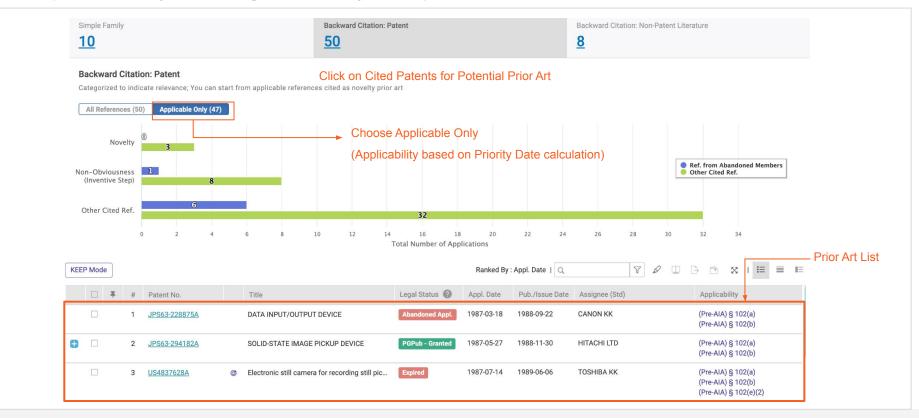
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Family Prior Art



Family Prior Art of '790

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



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Semantic Prior Art

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Semantic Prior Art of '790

Review potential prior art ranked by concept similarity

				Across IP5 a	and WIPO that	anks to Pa	tentcloud's p	proprietary algorithm	
Semantic Most Releva			prior art refe	erences based on Semantic Similarity with a pater	nt's first claim and ab	stract	nge Scope	→ Select claim text o	r enter the desired te
		imilarity with claim chart					ige scope		
G Discover	prior arts si	innianty with claim chart	format in se	conas !					
KEEP Mod	le 0 are o	f high semantic similarit	ty			Ranked By : Rele	evance Q	7 0 🗉 🗗	è ≈ I 🗉 ≡ 🗉
	Ranking	Patent No.	*	Title	Legal Status 👔	Appl. Date	Pub./Issue Date	Assignee (Std)	Applicability
	1	<u>US6593967B1</u>	Ċ	Electronic camera having dual clocked line	Expired	1998-12-16	2003-07-15	EASTMAN KODAK CO	(Pre-AIA) § 102(e)(2)
	2	US6947085B1	Ċ	CMOS sensor with data flow control	Abandoned	1998-02-27	2005-09-20	INTEL CORP	(Pre-AIA) § 102(e)(2)
	3	<u>US6493025B1</u>	Ċ	Image sensing system equipped with interf	Abandoned	1996-10-03	2002-12-10	SANYO ELECTRONIC CO LTD	(Pre-AIA) § 102(e)(2)
	4	W01999/065235A1	ø	IMAGE SENSOR WITH CROPPING	PCT End - NP	1999-06-09	1999-12-16	LOGITECH EUROPE SA	(Pre-AIA) § 102(a) (Pre-AIA) § 102(b)
	5	JPH09-097307A		WRITING CONTROL MECHANISM FOR IMA	PGPub - Granted	1995-09-29	1997-04-08	OKI ELECTRIC IND CO LTD	(Pre-AIA) § 102(a) (Pre-AIA) § 102(b)
	6	JPH04-140182A		PRINTER	Abandoned	1990-09-30	1992-05-14	SANYO ELECTRIC CO LTD	(Pre-AIA) § 102(a) (Pre-AIA) § 102(b)
	7	<u>US6021449A</u>	©.	Video FIFO overflow control method that bl	Abandoned	1997-08-01	2000-02-01	INTERNATIONAL BUSINESS	(Pre-AIA) § 102(e)(2)
	8	<u>US5920343A</u>	ø	Imaging system with image processing for	Expired	1996-08-09	1999-07-06	SANYO ELECTRIC CO LTD	(Pre-AIA) § 102(a) (Pre-AIA) § 102(b) (Pre-AIA) § 102(e)(2)
	٥	KD100175606R1		DATA INTEDEACE ADDADATI IS RETWEEN D	Abandoned	1006-10-25	1009-11-10		(Dro-AIA) & 102(a)

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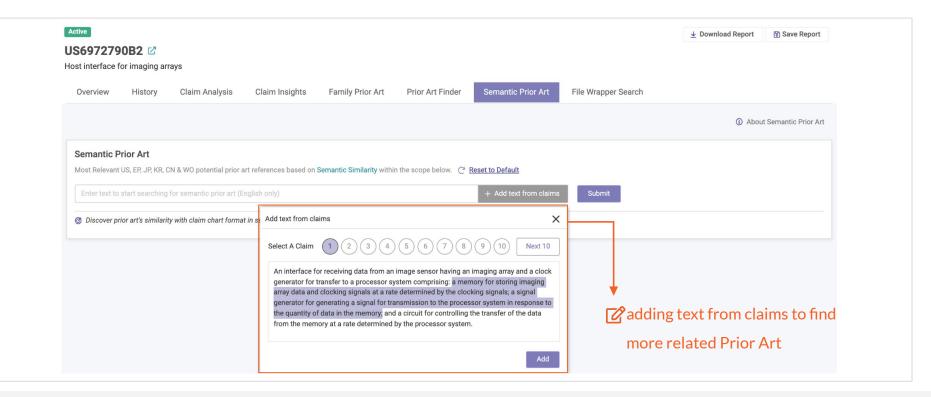
1.11

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Semantic Prior Art of '790

Review potential prior art ranked by concept similarity



← Go back to the outline

Comparison tools



Prior Art Comparison (claim chart format)

What does this prior art say about the critical elements?

	[Disclosure Rate of Prior Art	
1.01 1.02 1.03 1.04 Fi	ind 14 Result(s) Disclosure Rate : 50%		
Claim Element	US6593967B1 Content		
 #1.01 An interface for receiving data from an image sensor having an imaging array and a clock generator for transfer to a processor system comprising: Keyword List ① image sensor (25) PA clock generator (9) PA interface (3) FW PA processor system (0) receiving data (0) FW 	sensor for capturing an image and producing pixel data ru horizontal shift register responsive to applied vertical cloc signals for sequentially transferring the lines of pixel data transfer interval wherein pixel data is prevented from bein memory coupled to the A / D converter for temporarily sto data , and a storage device coupled to the digital signal pr producing the vertical and horizontal clock signals and a f the FIFO memory at a first frequency , and a master pixel clock signal for transferring the digitized pixel data from t	cludes an image capture section and an image processing section . The image capture section includes apresentative of the captured image , an analog - to - digital (A / D) converter for digitizing the pixel dat ck signals for receiving lines of the pixel data from the image sensor and responsive to applied horizont to the A / D converter , the time between the application of horizontal and vertical clock signals providir g output from the horizontal shift register . The image processing section includes a first - in - first - out oring the digitized pixel data , a digital signal processor coupled to the FIFO memory for processing the cocessor for storing the processed digitized pixel data . The electronic camera further includes a clock g FIFO write signal for causing the digitized pixel data from the A / D converter to be transferred to storage clock signal . The camera further includes circuitry for producing a FIFO read signal in response to the me FIFO memory to the digital signal processor at a second frequency for processing the digitized pixel e storage device . The second frequency is selected to be lower than the first frequency .	a , and a tal clock ng for a vertical (FIFO) digitized pixel generator for e locations in naster pixel
imaging array (0) FW	Claims		
		mages , comprising : (a) an image capture section including : (i) an <mark>limage sensor</mark> for capturing an im e ; (ii) an analog - to - digital (<mark>A</mark> / D) converter for digitizing the pixel data ; and (iii) a horizontal shift re	
🕜 Answer the question:	Ľ	Discover prior art similarity with keywords (includes	
What does this prior art say abo	out the Claim	keyword stemming) mapped to the selected prior art	
elements: "image sensor", "clock	k generator" ?	reference Abstract, Claims, and Specification.	



Prior Art Comparison (sample output)

Easily generate a table like below

	Claim	Claim-Term Interpretation	Semantic Prior Art - '634	3rd Degree Citation Prior Art - B
	An interface for receiving data from an image sensor having an imaging array and a clock generator for transfer to a processor system comprising:	Refer to Claim Analysis results	50%	
	a memory for storing imaging array data and clocking signals at a rate determined by the clocking signals;		75%	
1	a signal generator for generating a signal for transmission to the processor system in response to the quantity of data in the memory;		33%	
	and a circuit for controlling the transfer of the data from the memory at a rate determined by the processor system.		66%	

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

2	🖸	2) • •		Export				×
			B2 Active (Accession of the second se	sible Until 2020-0	Export Type: Export Items:	Patent List (Excel) Patent List (CSV Selected Patents	/) O Full Text (PDF)	O Front Page (PDF)	
0	verv	iew	Claim Analysis	Claim Insi	Export Fields:	Customized O All Fields		Save as my default se	ettings.
					Patent Field:	Appl. No.	Appl. No. (PTO)	Appl. Date	1
		#	Patent No.	Title	Earliest Appl.	Ittle	Title (English)	Patent No.	ty.
	•	1	CN1247662A	Dual use spea	Patent No. (PT	D) Dub./Issue Date	Pub. No.	Pub. Date	102(e)(1)
	2	2	EP0998105B1	Mobile telepho	File Name:	Patentlist-Patentcloud			102(e)(1)
	•	3	JPH09-036932A	EXTERNAL RI					102(a)
	7	4	JPH11-055358A	MOBILE RADI					Export 102(b) 102(a) (PTE-AIA) § 102(b)
	V	5	US5317622	Ringing circuit	for use in a telephone set	f Abandoned 1994-05-31	1993-02-23		(Pre-AIA) § 102(a) (Pre-AIA) § 102(b) (Pre-AIA) § 102(e)(2)

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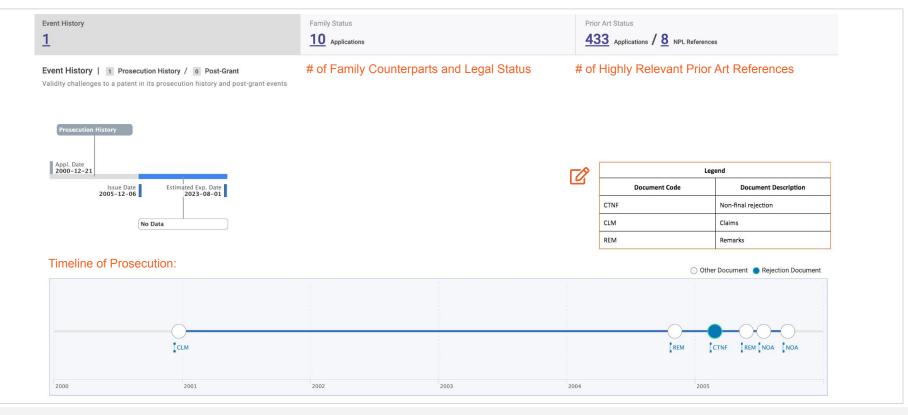
Download patent data in Excel or PDF format for Family Prior Art, Second Degree Prior Art, and/or Semantic Prior Art.

Prosecution and PTAB History Key Events



Key Events - '790

1 Prosecution & 0 Post-Grant





Key Events - '790

Prosecution History

eck prior art cited and the legal basis of these challenges							
Double Patenting 0 Ref.	§ 102	0 Ref.			§ 103 3 Ref. <u>US6833862 (1st)</u> Li	<u>JS6721008 (1:</u> Lee	st) <u>US6021449</u> Chow
Clickable events for o	original OAs	and their C	CR ver	sion when available.			
ummary of 09/742723 History 9 Event(s)	† I						
		Direct links	to Grou	nds, Claims Highlighted	and Prior Art De	etails	Data Last Updated on: 2021-10-25
Descriptions (Code)			t	Date ↓₹	F	Prior Art Ref.	
Notice of Allowance (NOA)				2005-09-21			
Notice of Allowance (NOA)				2005-09-21			
Notice of Allowance (NOA)				2005-07-15			
Notice of Allowance (NOA)				2005-07-15			
Applicant Arguments/Remarks Made in an Amendment (REM) Claims (CLM)				2005-05-26			
Non-Final Rejection (CTNF)				2005-02-25	0	Grounds 2	^
Legal Basis				Claims			Prior Art Ref.
35 U.S.C.§ 103				claim 15			Lee US6721008 (1st) Li US6833862
						1	Li US6833862 (1st)

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.

	ss-Document Search keyword to find documents including specific legal basis or specific claim terms		 About File Wrapper Search
touch	h sensor		
Rejec	ections, Remarks, and Notice of Allowance in Prosecution History 📧 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

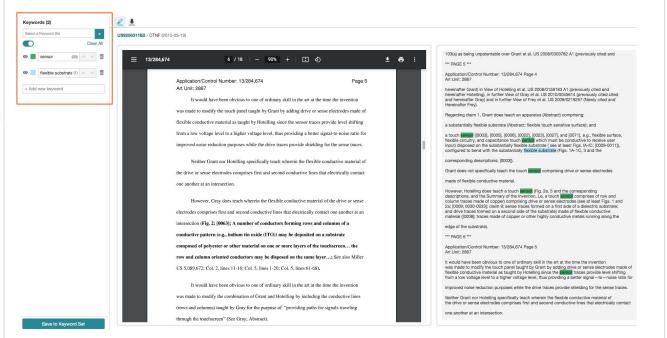
Prosecution and PTAB History Side-by-side PDF and OCR



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