



Patentcloud Quality Insights Annotation Report

Elite Gaming Tech LLC v. Marvell International, Ltd. et al EDTX-2-21-cv-00335 Focus on: U.S. Pat. No. 6,963,947 Filing date: Aug. 27, 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 - '947

Which claim terms are or are not in the specification?

	12 Terms Identified in This Claim
Select Text	Claim# 1
Highlight text from within the claim with your cursor and click on the tooltip "Select Terms" to	A bridge driver adapted to permit communication from a first communication bus to a second communication bus via a bridge,
find references in the Specification.	the bridge driver being adapted to rebalance a multi-level PCI bridge based computer system.
	Select Terms

Claim Analysis finds these terms in the spec: "permit communication", "communication bus", "multi-level PCI bridge", as well as other terms that are highlighted in red.

Map claims to specification - '947

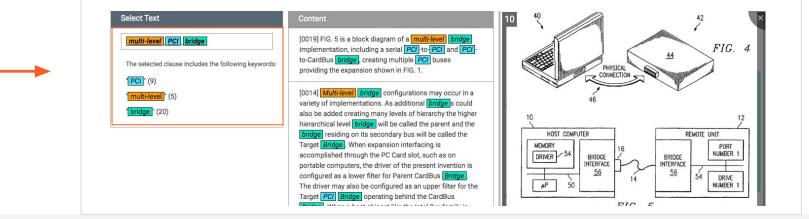
Which claim terms are or are not in the specification?

	12 Terms Identified in This Claim 🛛 🖻 Click to Select Terms	i≡	Ξ
Select Text	Claim#1		
Highlight text from within the claim with your cursor and click on the tooltip "Select Terms" to	A bridge driver adapted to permit communication from a first communication bus to a second communication bus via a bridge,		
find references in the Specification.	the bridge driver being adapted to rebalance a multi-level PCI bridge based computer system.		

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

Selected elements of '947 Claim 1 Selected elements of Claim '947 in Spec

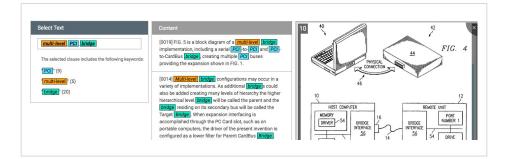






Map claims to specification and Complaint - '947

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?

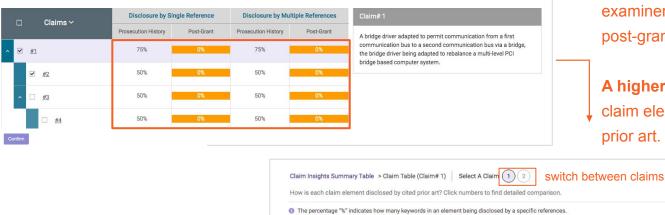
17. Defendants have and continue to directly infringe at least claim 1 of the '947 Patent by making, using, offering to sell, selling, and/or importing into the United States chips including, but not limited to SoCs, further including but not limited to Marvell Octeon and Armada SoCs, that contain a bridge driver adapted to permit communications from a first communication bus to a second communication bus via a bridge. Upon information and belief, these bridge drivers are adapted to rebalance a multi-level PCI bridge-based computer system such as, for example, communications systems based on internal busses and external busses, such as the peripheral communication interface (PCI) bus, the advanced communications buss (ACB), and the PCI express bus (PCIe).



Map claims to the file wrapper - '947

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.

All Prosecution history Post-Grant Re	sponded prior arts only		
Claims	©	Prior Art Ref. (3)	
Cialitis	US6189050	OTHER REFERENCE	
<u>#1.01</u> (75%)	75%	75%	
#1.02 (100%)	100%	100%	

Disclosure Rate by Prior Art



Map claims terms to the file wrapper - '947

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

The percentage "%" indicates how many keywo Click to find comprehensive explanation of calc		nt being disclosed by a specific references.				
All Prosecution history Post-Grant	C Respon	nded prior arts only				
Claims		Prior Art Ref. (3)				
ordinio		US6189050	OTHER REFERENCE			
<u>#1.01</u> (75%)		75%	75%			
<u>#1.02</u> (100%)		100%	100%			
ELIZE (1004)		19973	1993			

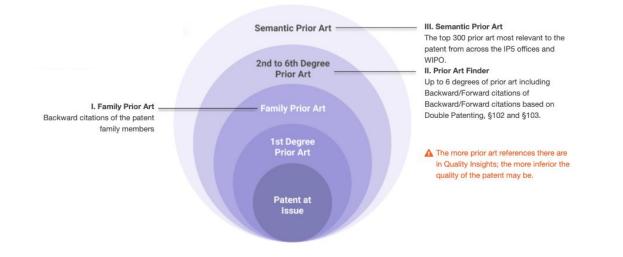
All of the limitations of this asserted claim element in '947 were 100% known by Sakarda (US6189050).

Answer the questions: *Why was this patent granted?*

-by-side comparison; Claim terms not foun	Rejection from Examiner
1 (1.02)	Find 2 Result(s)
Claim Element	Prior Art Ref. Sakarda [US6189050] Oshins [otherreference]
1.02 the bridge driver, being adapted to rebalance a multi-level [PCI] brid	
based computer system.	claims 1-4 and 12 are rejected under 35 u.s.c. 103(a) as being unpatentable over sakarda in view of oshins et al., us., pat., application publication 2002/0170951 a1.
	as per claim 1, sakarda shows a bridge driver adapted to permit communication from a first bus(130) to a second bus(135) via a bridge(134 which inherently contains a bridge driver for controlling its operations).
	sakarda does not specifically show that the bridge driver is adapted to rebalance a multi-level [pci bridge] based computer system, however sakarda does show a multilevel [pci bridge] based system at least in figure 2.
	oshins et al.shows rebalancing devices in a pci bus based system in order to resolve resource conflicts among the pci devices(see paragraphs[0004],[0007],[0031], and[0049-0050]).



How does Quality Insights generate prior art?



← Go back to the outline

Prior Art Finder

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ior Art Find			Filter by: • Applicability • Legal Basis (§102 or §103) • Patent Office • Legal Status							
1st Degree Art 1					Degree Art			N Degree Art		
V Degree Art Extend forward/backward citations from t	he Second [Degree A	rt							
Discover prior art's similarity with claim ch	art format in	seconds	l							:≡ = 1
KEEP Mode						Ranked By : Legal	Basis (§102 first) I Q	T & D B c	b ⊠ 1
US6963947B2	6th Deg	gree List								
✓ <u>1st Degree (1)</u>	2	F #	Patent No.		Title	Legal Status 🕜	Appl. Date	Pub./Issue Date	Assignee (Std)	Applicability
A 2nd Degree (6)		1	<u>US7778595B2</u>	0	Method for managing media	Expired	2008-01-16	2010-08-17	AFFINITY LABS OF TEXAS L	(Pre-AIA) § 102(e)(2)
US20020169918A1										
US20030079066A1 US20040221152A1 US20080077714A1 US20030227643A1 US20150138589A1		2	<u>US718794781</u>	ø	System and method for communicating sel	Lapsed	2000-03-28	2007-03-06	AFFINITY LABS LLC	(Pre-AIA) § 102(e)(2)
✓ <u>3rd Degree (12)</u>										
✓ <u>4th Degree (20)</u>										
o 6th		3	US20100017543A1	ø	METHOD AND APPARATUS FOR DYNAMIC	PGPub - Granted	2009-06-11	2010-01-21	MEDIUS INC	(Pre-AIA) § 102(e)(1)
ee Prior <u>6th Degree</u>		4	US20110312386A1	¢	System And Method For Communicating M	PGPub - Granted	2011-03-21	2011-12-22	IMES KEVIN R	(Pre-AIA) § 102(e)(1)

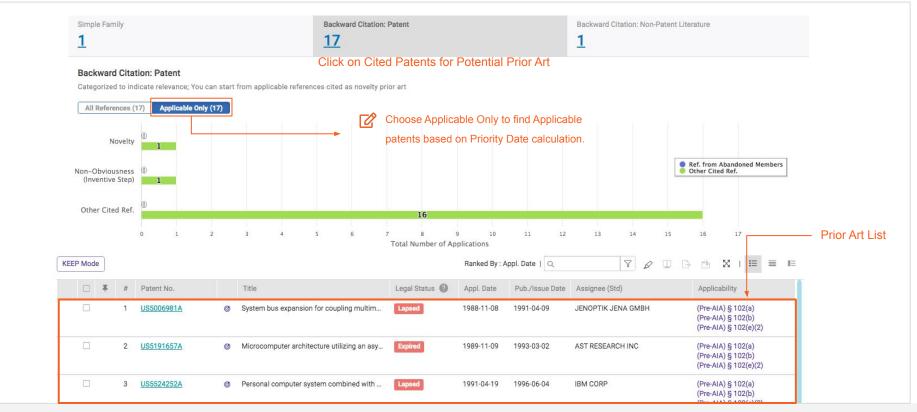
← Go back to the outline

Family Prior Art



Family Prior Art of '947

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 '947

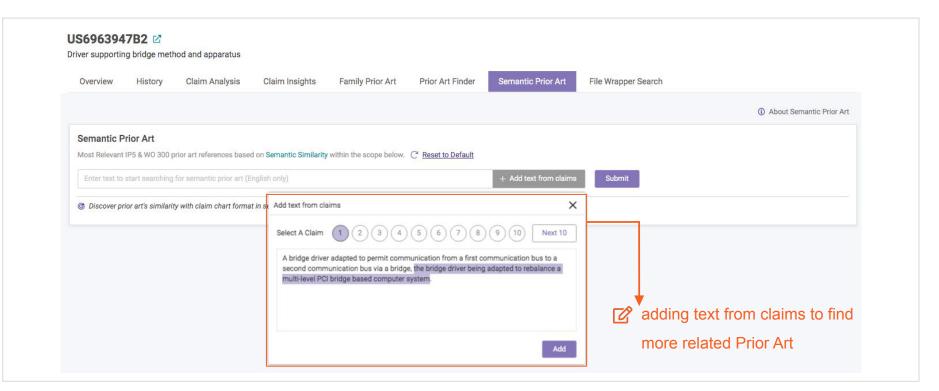
Review potential prior art ranked by concept similarity

Seman	tic Prior Ar	t								
Most Re	evant IP5 & W	O 300 prior art reference	s based	on S	emantic Similarity among the first claims and abs	stracts. 🔁 <u>Change</u>	Scope	Sel	ect claim text or enter	the desired text/keywo
🎯 Disco	over prior art's s	similarity with claim char	t format	in se	conds /Prior art references foun	d (within the	designate	d scope) that	are	
					deemed as having high se	mantic simil	arity will b	e starred wit	h a ★	
KEEP N	Node 10 are	e of high semantic similar	rity		Î		Ranked By : Rele	evance Q	7 8 0 6	⊡ ⊠ ! !≡ ≡ ⊪≡
	Ranking	Patent No.		*	Title	Legal Status 🕜	Appl. Date	Pub./Issue Date	Assignee (Std)	Applicability
	1	<u>US6425033B1</u>	¢	*	System and method for connecting periphe	Expired	1998-06-05	2002-07-23	NATIONAL INSTRUMENTS	(Pre-AIA) § 102(e)(2)
	2	<u>US6457091B1</u>	¢	*	PCI bridge configuration having physically s	Expired	1999-05-14	2002-09-24	KONINKLIJKE PHILIPS NV	(Pre-AIA) § 102(e)(2)
	3	W02000/070475A1	¢	*	PCI BRIDGE CONFIGURATION HAVING PHY	PCT End - NP	2000-02-22	2000-11-23	PHILIPS ELECTRONICS NO	(Pre-AIA) § 102(a)
	4	US20020016862A1	C	*	Method for configuring peer-to-peer bus bri	PGPub - Granted	2001-08-10	2002-02-07	PORTERFIELD A KENT	(Pre-AIA) § 102(e)(1)
	5	US20020016877A1	¢	*	Computer system having peer-to-peer bus	PGPub - Granted	2001-08-14	2002-02-07	PORTERFIELD A KENT	(Pre-AIA) § 102(e)(1)
	6	<u>US6195717B1</u>	G	*	Method of expanding bus loading capacity	Expired	1997-10-01	2001-02-27	MICRON ELECTRONICS INC	(Pre-AIA) § 102(a) (Pre-AIA) § 102(e)(2)
	7	<u>US6275888B1</u>	C	*	Method for configuring peer-to-peer bus bri	Expired	2000-03-13	2001-08-14	MICRON TECHNOLOGY INC	(Pre-AIA) § 102(e)(2)
	8	<u>US6249834B1</u>	¢	٠	System for expanding PCI bus loading capa	Expired	1997-10-01	2001-06-19	MICRON TECHNOLOGY INC	(Pre-AIA) § 102(e)(2)
	9	US6418504B2	Ø	*	System and method for coupling peripheral	Expired	2001-06-06	2002-07-09	NATIONAL INSTRUMENTS	(Pre-AIA) § 102(e)(2)



Semantic Prior Art of '947

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?

1.01	1.02	Find 30 Result(s) Disclosure Rate : 40%		Ø IE		
	Claim Element	US6418504B2 Content				
#1 Ke	rebalance) a (multi-level) PCI (bridge) based (computer system). yword List ()	remote device . The serial bus can range from severa first Peripheral Component Interconnect (PCI) bus ,	eral devices to a computer . The WASP system includes a host <u>computer system</u> connect al meters to several kilometers or more . The host <u>computer system</u> includes a CPU and also referred to as the local PCI bus . A primary bridge according to the present invention r interfacing to the first PCI bus . The remote device is located remotely from the <u>comput</u>	memory , and also includes a is coupled to the first PCI bus .		
۲	Computer systems Computer System PCI bridge (25) FW PA PCI bridge	bus . The secondary bridge includes PCI interface cir bridge . Each of the primary bridge and secondary br respectively , to serial data for transmission on the s	al devices coupled to the second PCI bus . The remote device also includes a secondary b cuitry for interfacing to the second PCI bus . The serial bus is coupled between the prima idge include parallel / serial transceivers for converting parallel data generated on the firs erial bus and for converting serial data received from the serial bus to parallel data for gen id the secondary bridge collectively implement a PCI – PCI bridge register set .	ry bridge and the secondary st PCI bus and second PCI bus ,		
	PCI bridges bridge driver (0) FW rebalance (0) FW multi-level (0) FW	memory, wherein the computer system includes : a interface includes PCI interface circuitry for interfaci second PCI bus; one or more peripheral devices cou includes PCI interface circuitry for interfacing to the includes first and second ends, wherein the first end	ral devices to a computer , comprising : a computer system , wherein the computer syst first Peripheral Component Interconnect (PCI) bus ; and a first interface coupled to the f ng to the first PCI bus ; a remote device located remotely from the computer system , the pled to the second PCI bus ; and a second interface coupled to the second PCI bus , where second PCI bus ; a serial bus coupled between the first interface and the second interface of the serial bus is coupled to the first interface and the second end of the serial bus is c terface include parallel / serial transceivers for converting parallel data generated on the f	first PCI bus , wherein the first e remote device comprising : a rein the second interface e , wherein the serial bus coupled to the second interface		
R	Answer the question:		Discover prior art similarity with keyw	vords (includes		
_	What does this prior	art say about the Claim	keyword stemming) mapped to the se	elected prior ar		
	elements: "pci bridge	»" ?	reference Abstract, Claims, and Specification.			



Prior Art Comparison (sample output)

Easily generate a table like below

	Claim	Claim-Term Interpretation	Semantic Prior Art - '504	3rd Degree Citation Prior Art - B
1	A bridge driver adapted to permit communication from a first communication bus to a second communication bus via a bridge,	Refer to Claim Analysis results	40%	
	the bridge driver being adapted to rebalance a multi-level PCI bridge based computer system.		40%	

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

4		3	Э Ш в		Export				×
			BE 2 Active Coccesso Dile unit Export	sible Until 2020-0	Export Type: Export Items:	Patent List (Excel) Patent List (Selected Patents	CSV) O Full Text (PDF)	○ Front Page (PDF)	
C	Overvi	iew	Claim Analysis	Claim Insi	Export Fields:	Customized O All Fields		Save as my defa	ault settings.
					Patent Field:	Appl. No.	Appl. No. (PTO)	🖌 Appl. Date	1
		#	Patent No.	Title	Earliest Appl.	☑ Title	Title (English)	Patent No.	ly
		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				Cance	Export 102(a) (Pre-AIA) § 102(b)
	Y	5	US5317622	Ringing circuit	for use in a telephone set	f Abandoned 1994-05-3	1 1993-02-23	NEC CORP	(Pre-AIA) § 102(a) (Pre-AIA) § 102(b) (Pre-AIA) § 102(e)(2)

Ø

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 - '947

1 Prosecution & 0 Post-Grant

Event History 1 Prosecution History / 0 Post-Grant	# of Family Counterparts and Legal Status	# of	Highly Relevant Pr	ior Art References
Validity challenges to a patent in its prosecution history and post-grant even	ts			
Prosecution History RCE		Ċ		
		Ľ	Document Code	Document Description
Appl. Date 2001-07-18			CTFR	Final rejection
Issue Date Estimated Exp. Date 2005-11-08 2022-05-21			CTNF	Non-final rejection
			CLM	Claims
No Data			REM	Remarks
Timeline of Prosecution:			O Othe	er Document 🔮 Rejection Document

2004

2003

2001

2002

2005



Key Events - '947

Prosecution History

Double Patenting 0 Ref.	§ 102 <u>US618905</u> Sakarda	and the second se		§ 103 2 R <u>US6189050 (1st)</u> Sakarda	ef. other referen Oshins	ce
			Direct links to Grounds,			
ummany of 00/009255 History Larg Event(a)	Claims Highlighted and Prior Art Details					
ummary of 09/908255 History 10 Event(s) Clickable events for original OAs and their OC	R version whe	n available.	<u>†</u>			Data Last Updated on: 2021-01-2
Descriptions (Code)			Date ↓₹		Prior Art Re	f.
Notice of Allowance (NOA)			2005-05-10			
Notice of Allowance (NOA)			 2005-05-10			
Request for Continued Examination (RCEX)			2005-03-17			
Applicant Arguments/Remarks Made in an Amendment (REM) Claims (CLM)			2005-03-17			
Applicant Arguments/Remarks Made in an Amendment (REM)			2005-02-28			
Final Rejection (CTFR)			2004-09-14		Grounds 2	^
Legal Basis			Claims			Prior Art Ref.
25.110.0.0.0.00			 claim 1,2,3,4,12			Sakarda US6189050 (1st) Oshins (other reference)
35 U.S.C.§ 103						oanina (other reference)

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.

	s-Document Search keyword to find documents including specific legal basis or specific claim terms		 About File Wrapper Search
touch	n sensor		
Rejec	ctions, 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 (GTNF)	USPTO	2013-11-07

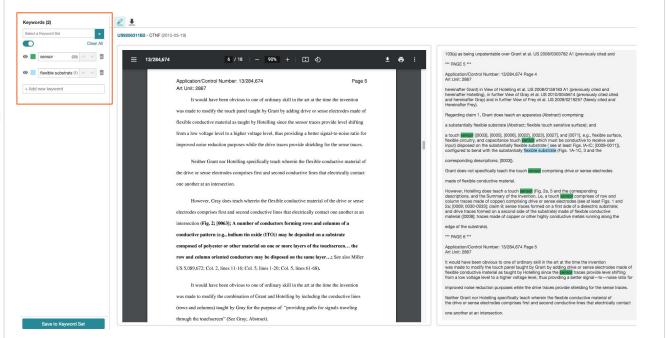
Prosecution and PTAB History Side-by-side PDF and OCR



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