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FORM PTO-1595 1-31-92

#### RECORDATION FORM COVER SHEET PATENTS ONLY To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. 2. Name and address of receiving party(ics): 1. Name of conveying party(ies): Jonathan Robert Nowitz, Jennifer Weis, Julie L. Name: Thomson Licensing S.A. Trott, Srinivasan Sudanagunta, Austin David Dahl and Michael Gerald Maitlen Additional name(s) of X No Street Address: 46 quai Alphonse Le Gallo conveying party(ies) F-92100 Boulogne Billancourt France attached: State: France Zip: City: Boulogne Billancourt 3. Nature of convenance: Merger х Assignment Change of Name Security Agreement Other х No Additional name(s) & address(cs) attached? Execution Date: October 17, 2003, November 3, 2003 and October 17, 2003 respectively 4. Application number(s) or patent number(s): Serial No. 10/625,141 If this document is being filed together with a new application, the execution date of the application is: B. Patent No.(s) ----A. Patent Application No.(s) U.S. 10/625,141 X No Additional numbers attached? Total number of applications and patents involved: 1\_\_\_\_\_ 5. Name and address of party to whom correspondence concerning document should be mailed: JOSEPH S. TRIPOLI Name: 7. Total Fee (37 CFR 3.41): \$40.00 Internal Address: PATENT OPERATIONS Enclosed THOMSON multimedia Licensing Inc. Authorized to be charged to deposit account 8. Deposit account number: Street Address: PO Box 5312 07-0832 City: PRINCETON State: NEW JERSEY Zip :08543-5312 DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. 101. [1,2007 Joel M. Fogelson. Signature - Reg. No. 43,613 Name of Person Signing 5 pages comprising cover sheet: Total number OMB No. 0651-0011 (exp. 4/94) DO NOT DETACH THIS PORTION Mail documents to be recorded with required cover sheet information to: **Commissioner for Patents** Box Assignments Alexandria, VA 22313-1450 Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded. including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C. Washington, D.C. 20231, and to the Office of Management and Budget. Paperwork Reduction Project (0651-0011), Washington, D.C. 20503.

## PATENT REEL: 014113 FRAME: 0038

## ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA

l hereby de (if plural inventors ar	clare that I am the sole inventor (if only one inventor is name re named below) of the inventions relating to	ME	or one of <u>6</u> joint Inventors THOD AND SYSTEM FOR RULE BASED INDEXING OF MULTIPLE DATA RUCTURES			
described in an app	Ication for Letters Patent of the United States of America fil-	ad on	July 23, 2003 Under Serial No. 10/625,141			
	or, if not identified here by filing date and serial nu	mber, ex	ecuted by me on even date with my execution of this			
and existing under t for all countries in a and any divisions, o I agree tha do all acts which m and for vesting title I agree tha requested by said C its successors, assi I authorize or their own name, or their own name, or them, the benefi henceforth be subs I hereby c be required in any other proper protec Property, as amon	e consideration received, I hereby sell, assign and transfer he laws of the country of France, its successors, and assign ontinuations, releaues and extensions thereof. t, when requested, I will, without charge to said corporation any be necessary, desirable or convenient for securing and thereto in said corporation, its successors, assigns or nomin t I will communicate to said corporation or its representative orporation and at its expense will testify in any legal proces gas and legal representatives or nominees, to obtain or enf and empower said corporation, its successors, assigns or or in my/our name, in any and all countries and to invoke a t of the right of priority provided by the International Conve tituted for it, and to invoke and claim such right of priority wi pnsent that a copy of this assignment shall be deemed a fu- tion for said inventions, and to claim the aforesaid benefits.	(s) my enti- ; any end ) but et its maintain nees. (s) any fac dings, any orce prop nomines: not claim ntion for 1 (h) legal er e right o of the rig ted for it. () legot for it.	In a right, the and interest, all Letters Patent that may be granted therefor, all setters Patent that may be granted therefor, all setters are other forms of protection for said inventions in any and all countries its known to me respecting said inventions and when d generally do everything possible to aid said corporation, ther protection for said inventions in any and all countries s, to make application for patent or other form of protection for said inventions in its for any application for patent or other form of protection for said inventions filed by it the Protection of Industrial Property, as amended, or by any convention which may her written or oral authorization form me. If the said corporation or its successore, assigns or nominees to apply for patent of int of priority provided by the International Convention for the Protection of Industrial encesentatives, and nominees, that to the best of my knowledge the right, title and			
Signed at	Seattle, Washington	Dale	$\times \frac{10/17/03}{0}$			
Inventor (1)	JONATHAN ROBERT NOWITZ (Type or Print)		(Signature in Full. No Initials.)			
P	2302 NE 92 St., Seattle	, Was <u>l</u>	hington 98115			
1st Witness	(Type or Print)		(Signature in Full. No initials.)			
2ndWitness	<u>JULE Troff</u>	-	(Signature in Full. No initials.)			
Şigned at	Seattle, Washington	Date	10717/03			
Inventor (2)	JENNIFER WEIS (Type or Print)	-	(Signature in Full. No initials.)			
P P	Post Office Address 1302 Queen Anne Avenue N #5, Seattle, Washington 98109					
1st Wilness	Eric Rehm	_	Signature in Full. No Initials.)			
2ndWitness	JONATHAN NOWSTZ		(Signature in Full. No initiate)->			
Signed at	Seattle, Washington	Date	10/17/03			
Inventor (3)	JULIE L. TROTT (Type or Print)	_	(Signature in Full. No initials.)			
1st Witness 2ndWilness	Poet Office Address <u>6904 NE 161st Street,</u> <u>Enk</u> <u>Reum</u> (Type or Print) JaNathan NawIE	Seattle -	e, Washington 98028 (Signature In Full, No initials.)			
50044(0623	(Type or Print)		(Signature in Full. No initials)			

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## PATENT REEL: 014113 FRAME: 0039

## ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA

i hereby de plural inventora ar	clare that I am the sole inventor (if only one inventor is nam re named below) of the inventions relating to	ME	ow) or one of <u>6</u> joint Inventore METHOD AND SYSTEM FOR RULE BASED INDEXING OF MULTIPLE DATA STRUCTURES
scribed in an appi	lication for Letters Patent of the United States of America fil	ed on	July 29, 2003 Under Serial No. 10/625,141
	or, if not identified here by filing date and serial nu	imber, ex	executed by me on even date with my execution of this
nd existing under t r all countries in a nd any divisions, c i agree tha o all acts which m nd for vesting title i agree tha i agree tha i authorize r their own name, r them, the benefil enceforth be subsi i hereby cc e required in any i her proper protec roperty, as amend	la consideration received, i hereby sell, assign and transfer the laws of the country of France, its auccessors, and assign not to said inventions, and all the rights and privileges under continuations, releases and extensions thereof. It, when requested, i will, without charge to said corporation is be necessary, desirable of conventent for security and thereto in said corporation, its successors, assigns or nomi- it will communicate to said corporation or its representative orporation and at its expense will testify in any legal proces- ges and legal representatives or nominees, to obtain or enf and empower said corporation, its successors, assigns of or in my/our name, in any and all countries and to invoke a to fithe right of priority provided by the international Conve- tituted for it, and to invoke and olaim such right of priority wi onsent that a copy of this assignment shall be deemed a fur country for any purpose and more particularly in proof of it to for said inventions, and to claim the aforesaid benefits said, or by any convention which may benceforth be substitu- reated and investignment shall be deemed a fur country for any purpose and to claim the aforesaid benefits said, or by any convention which may benceforth be substitu- reated to that the CENSING S.A. Its successore, assign and the successore assign and the successore assign and the successore.	ts my en t any anc t any anc t any anc t any any tees. tees. tees. tees. ters ter	entire right, title and interest, and all Letters Palent that may be granted therefor, it its expense, sign all papers, take all rightful caths, make all rightful declarations a taining patents or other forms of protection for said inventions in any and all countri facts known to me respecting said inventions and when and generally do everything possible to ald said corporation, roper protection for said inventions in any and all countries. ees, to make application for patent or other form of protection for said inventions in in for any application for patent or other form of protection for said inventions filed by or the Protection of Industrial Property, as amended, or by any convention which m unther written or oral authorization form me. I and formal equivalent of any assignment, consent to file or like document which m right of priority provided by the international Convention for the Protection of Industri it, a representatives, and nominees, that to the best of my knowledge the right, title a
tereat herein conv	reyed by me are free and clear of any encumbrance, and the	atihave	ve full right to convey the same as herein expressed.
Signed at	Seattle, Washington	Date	. × Nor 3 2003
Inventor (1)	SRINIVASAN SUDANAGUNTA		(Signature in Fail: "No Initials.)
Pc	st Office Address 91.3.26th Avenue E., Se	attie N	, Washington 98112-4115
	Eviz Rehm		S 2. Val
1șt Witnesa	(Type or Print)		(Signajore in Full. No Initials.)
2ndWitness	TONATHAN NOWITZ:		(Signature in Full, No Initians)
Signed at	Seattle, Washington	Date	9
inventor (2)	AUSTIN DAVID DAHL		(\$Ignature in Full. No Initials.)
Pr	ost Office Address 2039 26 <sup>th</sup> Aver E., Seat	tia W	Nashington 98112
	<u>_2008 20 Ayer E.; 004</u>		
1al Witness	(Type or Print)		(Signature in Full. No initials.)
2ndWitneas	(Type or Print)		(Signature in Full. No initials.)
Signed at	Tacoma, Washington	Date	
Inventor (3)	MICHAEL GERALD MAITLEN		(Signature in Full. No Initials.)
Po	Dist Office Address	icoma	na, Washington 98403
I			
1st Wilness	(Type grPfint)		(Signature in Full. No Initials.)

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	leclare that I am the sole inventor (if only one inventor is name	wolad be	r) or one of joint inventors
(if plural inventors	are named below) of the inventions relating to		THOD AND SYSTEM FOR RULE BASED INDEXING OF MULTIPLE DATA RUCTURES
described in an ap	plication for Letters Patent of the United States of America file	aq ou	July 23, 2003 Under Seriel No. 10/625,141
A I		mber, ex	recuted by me on even date with my execution of this
Assignment/Agre For value	ement. Ible consideration received, I hereby sell, assign and transfer Iv		ISON LICENSING S.A. a corporation duly organized
and existing unde	r the laws of the country of France, its successors, and assign:	s my eni	tire right, tille and interest,
	and to said inventions, and all the rights and privileges under a continuations, reissues and extensions thereof.	any and	all Letters Patent that may be granted therefor,
		bul at it	s expense, sign all papers, take all rightful oaths, make all rightful declarations and
			ning patents or other forms of protection for said inventions in any and all countries
	<ul> <li>thereto in said corporation, its successors, assigns or nomin- tat I will communicate to said corporation or its representatives</li> </ul>		cts known to me respecting said inventions and when
requested by said	corporation and at its expense will testify in any legal proceed	lings, an	d generally do everything possible to aid said corporation,
	signs and legal representatives or nominees, to obtain or ento		per protection for said inventions in any and all countries. Is, to make application for patent or other form of protection for said inventions in its
or their own name	e, or in my/our name, in any and all countries and to invoke an	id claim	for any application for patent or other form of protection for said inventions filed by it
			the Protection of Industrial Property, as amended, or by any convention which may
I hereby	istituted for it, and to invoke and claim such right of priority with consent that a copy of this assignment shall be deemed a full	legal ar	ner written or oral authorization from me. nd formal equivalent of any assignment, consent to fite or like document which may
be required in any	y country for any purpose and more particularly in proof of the	e right o	If the said comporation or its successors, assigns or nominees to apply for patent or
	action for said inventions, and to claim the aloresaid benefits o Nded, or by any convention which may henceforth be substitute		th of priority provided by the International Convention for the Protection of Industrial
Loovena	nt with THOMSON LICENSING S.A., its successors, essione.	. leoal r	epresentatives, and nominees, that to the best of my knowledge the right, litle and
interest herein cor	nveyed by me are free and clear of any encumbrance, and that	tihave	full right to convey the same as herein expressed.
Signed at		Date	
Olgride at	Seattle, Washington	Date	
Inventor (1)			
	SRINIVASAN SUDANAGUNTA		/Alexander and an in the last second as
	(Type or Print)		(Signature in Full. No initials.)
F	Post Office Address913 26th Avenue E., Sea	attle N	Neshington 98112-4115
		4601007 9	
1st Witness			
	(Type or Print)		(Signature in Full. No initials.)
2ndWitness			
	(Type or Print)		(Signature in Full. No initials.)
Signed at		D	int internal
Signed at	Seattle, Washington	Date	
Inventor (2)			$(m^{-1})$
	(Type of Phil)		(Signature in Full. No initials.)
F	<sup>2</sup> ost Office Address <u>2039 26<sup>th</sup> Ave. E., Seattl</u>	le, Wa	ashington 98112
			<u> </u>
1st Witness	Type or Print)		(Slonature In Full, No Initials.)
2ndWitness	DANIEL A HENDRICK		Trad A Handell
-	(Type or Print)		(Signature in Full. No initials.)
Signed at		Date	
4.g	Tacoma, Washington	Date	
Inventor (3)			
inventor (3)	MICHAEL GERALD MAITLEN (Type or Print)		
	(1996 OF FIND)		(Signature in Full. No initials.)
F	Post Office Address107 North_M Street, Tag	coma	. Washington, 98403
		ovina	, Washington, 00400
1st Witneas	(Terra and Data) and a second second		
	(Type or Print)		(Signature in Full. No initials.)
2ndWitness			
L	(Type or Print)		(Signature in Full. No initials.)

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# PATENT REEL: 014113 FRAME: 0041

### ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA

I hereby declare that I am the sole inventor (If only one inventor is named b (If plural Inventors are named below) of the inventions relating to	elow) or one of <u>6</u> joint inventore METHOD AND SYSTEM FOR RULE BASED INDEXING OF MULTIPLE DATA STRUCTURES
described in an application for Letters Patent of the United States of America filed or	n July 23, 2003 Under Serial No. 10/625,141
or, if not identified here by filing date and serial numbe	r, executed by me on even date with my execution of this

Assignment/Agreement.

For valuable consideration received, I hereby sell, assign and transfer to THOMSON LICENSING S.A., a corporation duly organized and existing under the taws of the country of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions, and all the rights and privileges under any and all Letters Patent that may be granted therefor,

and any divisions, continuations, relistes and extensions thereof. I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for accuring and maintaining patents or other forms of protection for said inventions in any and all countries and for vesting title thereto in said corporation, its successors, assigns or nominees.

and for vesting title thereto in said corporation, its successors, assigns or nominees. I agree that I will communicate to said corporation or its representatives any facts known to me respecting said inventions and when requested by said corporation and at its expense will testify in any legal proceedings, and generally do everything possible to aid said corporation, its successors, assigns and legal representatives or nominees, to obtain or enforce proper protection for said inventions in any and all countries. I authorize and empower said corporation, its successors, assigns or nominees, to make application for patent or other form of protection for said inventions in its or their own name, or in my/our name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or their own name, or in my/our name, in any and all countries and to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of authorization from me. I hereby consent that a copy of this assignment shall be deemed a full legal and format equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said corporation or its successors, assigns or nominees to apply for patent or other proper protection for said inventions, and to claim the aforesaid benefits of the right of priority provided by the Protection of undustrial Property, as amended, or by any convention which may henceforth be substituted for it.

Property, as amended, or by any convention which may henceforth be substituted for it. I covenant with THOMSON LICENSING S.A., its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, fille and interest herein conveyed by me are free and clear of any oncumbrance, and that I have full right to convey the same as herein expressed.

Signed at	_Seattle, Washington	Date	
Inventor (1)	SRINIVASAN SUDANAGUNTA (Type or Print)	-	(Signature fri Full. No initiala.)
F	lost Office Address 913 26th Avenue ESe	attle, W	ashington_98112-4115
1st Witness	(Type or Pdpu)	-	(Signature in Full. No initials.)
2ndWitness	(Type or Print)	_	(Signature in Full. No Initials.)
Signed at	Seattle, Washington	Date	
Inventor (2)	AUSTIN DAVID DAHL	-	(Signature in Full. No initials.)
F	Post Office Address 2039 26 <sup>th</sup> Ave. E., Sea	ttle, Wa	shington 98112
1st Witness	(Type or Brint)	-	(Signature in Full. No initials.)
2ndWitness	(Type or Print)	-	(Signature in Full. No initials.)
Signed at	Tacoma, Washington	Date -	10/2g /03
inventor (3)	MICHAEL GERALD MAITLEN	-	(Signature in Full. No initials.)
F	Post Olfice Address <u>1107 North M Street, T</u>	acoma,	Washington 98463
1st Witness	(Type or Print) Charles Olson	-	(Signature in Pull. No initials.)
2ndWitnesa	(Type or Print)	-	(Signature in Full. No initials.)
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