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PU020393

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Documents or copy thereof.

To the Honorable Director of the United States Patent and Tr.

1. Name of conveying party(ies):
NORTHON RODRIGUES; LAXMAN JODUMATT BHAT;ANIL SHARMA; KRISHNA NADH MANEPATI;
CHITTEPU VENKATARAMI REDDY; SUMAAdditional name(s) of
conveying party(ies)
attached: ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Date December 19, 2003; March 15, 15, 04, 15, and 15, 2004; respectively

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s):

PCT/US2003/028864

Additional name(s) & address(es) attached?

☒ No

B. Patent No.(s)

Additional numbers attached?

Yes No ☒ X5. Name and address of party to whom correspondence
concerning document should be mailed:Name: JOSEPH S. TRIPOLI
Internal Address: PATENT OPERATIONS
THOMSON LICENSING INC.

Street Address: P. O. Box 5312

City: PRINCETON State: NEW JERSEY Zip: 08543-5312

6. Total number of applications and patents involved: 1

7. Total Fee (37 CFR 3.41): \$40.00

☐ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

07-8832

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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
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JOEL M. FOGELSON

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PATENT
REEL: 017657 FRAME: 0381

(PCT Priority Application)

Docket No. PU020393

ASSIGNMENT AND AGREEMENT

I hereby declare that I am the sole inventor (if only one inventor is named below) or one of 6 joint inventors
(if plural inventors are named below) of the inventions
relating to Associating Notifications of the Status of a Data Network by Use of a Topology Editor

and described in Docket No. PU020393 and the thereupon-based International (Patent Cooperation Treaty) Application for patent about to be filed or
lately filed by said corporation naming me/us as inventor(s).

For valuable consideration received, I hereby sell, assign and transfer to THOMSON Licensing S.A., a corporation duly organized and existing
under the laws of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions and application, and all
the rights and privileges under any and all Patents that may be granted therefor, and any divisions, continuations, reissues and extensions thereof.

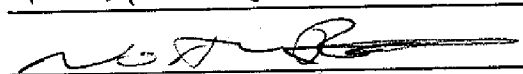

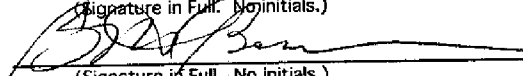
I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful
declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said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

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 them, the benefit of the right of priority provided by the International Convention for the Protection of
Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without
further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal 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 International Convention for the Protection of Industrial 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, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at	<u>Oregon City, Oregon</u>	Date	<u>12-19-2003</u>
Inventor (1)	<u>Northon Rodrigues</u> (Type or Print)	 (Signature in Full. No initials.)	
Address	Post Office <u>18220 S. Shiloh Lane, Oregon City, Oregon 97045 USA</u>		
1st Witness	<u>RAYMOND K BALDWIN</u> (Type or Print)	 (Signature in Full. No initials.)	
2nd Witness	<u>Beth A Bonness</u> (Type or Print)	 (Signature in Full. No initials.)	
Signed at	<u>Mangalore, India</u>	Date	
Inventor (2)	<u>Laxman Jodumatt Bhat</u> (Type or Print)	(Signature in Full. No initials.)	
Address	Post Office <u>11-1-31 Near City Bakery, Flower Market Street, Mangalore, India</u>		
1st Witness	(Type or Print)	(Signature in Full. No initials.)	
2nd Witness	(Type or Print)	(Signature in Full. No initials.)	
Signed at	<u>Bangalore, India</u>	Date	
Inventor (3)	<u>Anil Sharma</u> (Type or Print)	(Signature in Full. No initials.)	
Address	Post Office <u>Flat No. C-1, Annapoorna Apartments, Seethapa Colony, New Thippasandra, Bangalore, India</u>		
1st Witness	(Type or Print)	(Signature in Full. No initials.)	

(PCT Priority Application)

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For valuable consideration received, I hereby sell, assign and transfer to **THOMSON Licensing S.A.**, a corporation duly organized and existing under the laws of France, its successors, and assigns my entire right, title and interest, for all countries in and to said inventions and application, and all the rights and privileges under any and all Patents that may be granted therefor, and any divisions, continuations, reissues 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 securing 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.

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 them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may hereafter be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal 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 International Convention for the Protection of Industrial Property, as amended, or by any convention which may hereafter be substituted for it.

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Signed at	<u>Oregon City, Oregon</u>	Date	
Inventor (1)	<u>Northon Rodrigues</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>18220 S. Shiloh Lane, Oregon City, Oregon 97045 USA</u>		
1st Witness	(Type or Print)		(Signature in Full. No initials.)
2nd Witness	(Type or Print)		(Signature in Full. No initials.)
Signed at	<u>Mangalore, India</u>	Date	<u>03-15-2004</u>
Inventor (2)	<u>Laxman Jodumatt Bhat</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>11-1-31 Near City Bakery, Flower Market Street, Mangalore, India</u>		
1st Witness	<u>T. S. SETHUNATHAN</u> (Type or Print)		(Signature in Full. No initials.)
2nd Witness	<u>SHAILAJA SEETHARAM</u> (Type or Print)		(Signature in Full. No initials.)
Signed at	<u>Bangalore, India</u>	Date	<u>03-15-2004</u>
Inventor (3)	<u>Anil Sharma</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>Flat No. C-1, Annapoorna Apartments, Seethapa Colony, New Thippasandra, Bangalore, India</u>		
1st Witness	<u>T. S. SETHUNATHAN</u> (Type or Print)		(Signature in Full. No initials.)
2nd Witness	<u>SHAILAJA SEETHARAM</u> (Type or Print)		(Signature in Full. No initials.)

After this Assignment has been recorded please RETURN to:

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P. O. Box 5312
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(PCT Priority Application)

Docket No. PU020393

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Signed at	<u>India</u>	Date	<u>03-04-2004</u>
Inventor (4)	<u>Krishna Nadh Manepalli</u> (Type or Print)		<u>M. Krishna Nadh Manepalli</u> (Signature in Full. No initials.)
Post Office Address	<u>C/o Kalyani Fancy Stores, Main Road, Agiripalli, Krishna District, Andhra Pradesh, India</u>		
1st Witness	<u>T. S. SETHUNATHAN</u> (Type or Print)		<u>T. S. SETHUNATHAN</u> (Signature in Full. No initials.)
2nd Witness	<u>SHAILATA SEETHARAM</u> (Type or Print)		<u>Shailata</u> (Signature in Full. No initials.)
Signed at	<u>Bangalore, India</u>	Date	<u>03-15-2004</u>
Inventor (5)	<u>Chittepu Venkatarami Reddy</u> (Type or Print)		<u>C. V. Venkatarami Reddy</u> (Signature in Full. No initials.)
Post Office Address	<u>No. 176, 16th Main, 7th Cross, B.T.M. 2nd Stage, E.W.S. Layout, Bangalore, India</u>		
1st Witness	<u>T. S. SETHUNATHAN</u> (Type or Print)		<u>T. S. SETHUNATHAN</u> (Signature in Full. No initials.)
2nd Witness	<u>SHAILATA SEETHARAM</u> (Type or Print)		<u>Shailata</u> (Signature in Full. No initials.)
Signed at	<u>Bangalore, India</u>	Date	<u>03-15-2004</u>
Inventor (6)	<u>Suma</u> (Type or Print)		<u>Suma</u> (Signature in Full. No initials.)
Post Office Address	<u>"Anugraha", No. 33, 4th Cross, 2nd Left, Ganesha Block, Dinnur Main Road, R.T. Nagar Post, Bangalore, India</u>		
1st Witness	<u>T. S. SETHUNATHAN</u> (Type or Print)		<u>T. S. SETHUNATHAN</u> (Signature in Full. No initials.)
2nd Witness	<u>SHAILATA SEETHARAM</u> (Type or Print)		<u>Shailata</u> (Signature in Full. No initials.)

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