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Docket No.: PU050062

U.S. DEPARTMENT OF COMMERCE
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To the Honorable Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): HANG LIU JUN LI SAURABH MATHUR Additional name(s) of conveying party(ies) attached: <input checked="" type="checkbox"/> No		2. Name and address of receiving party(ies): Name: THOMSON Licensing S.A. Internal Address: Street: 46 Quai A. Le Gallo F-92100 Boulogne-Billancourt, France	
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Security Agreement <input type="checkbox"/> Other		Additional name(s) & address(es) attached? <input checked="" type="checkbox"/> No	
Execution Date: June 22, 14 and 14, 2005; respectively			
4. Application number(s) or patent number(s): 1. If this document is being filed together with a new application, the execution date of the application is: A. Patent Application No.(s): PCT/US2005/14058		B. Patent No.(s) Additional numbers attached? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> X	
5. Name and address of party to whom correspondence concerning document should be mailed: Name: JOSEPH J. LAKS Internal Address: PATENT OPERATIONS THOMSON LICENSING LLC. Street Address: P. O. Box 5312 City: PRINCETON State: NEW JERSEY Zip: 08543-5312		6. Total number of applications and patents involved: <u>1</u>	
		7. Total Fee (37 CFR 3.41): \$40.00 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account	
		8. Deposit account number: 07-0832	

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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 copy of the original document.

Name of Person Signing: CATHERINE A. FERGUSON
Signature - Reg. No. 40,877
Date: OCT 23, 2007

Total number of pages including cover sheet, attachments, and document 2

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ASSIGNMENT

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WHEREAS, Thomson Licensing S.A., a corporation duly organized and existing under the laws of France, having offices at 46, Quai A. Le Gallo, F-92100 Boulogne-Billancourt, France and THOMSON LICENSING, a corporation organized and existing under the laws of France and having offices at 46, Quai A. Le Gallo, F-92100 Boulogne-Billancourt, France, entered into an agreement calling for the assignment of certain inventions, to THOMSON LICENSING;

NOW THEREFORE, Thomson Licensing S.A., in consideration of the mutual covenants of said agreement, does hereby assign to THOMSON LICENSING, its successors and assigns, Thomson Licensing S.A.'s entire right, title and interest, for all countries and states, in and to, and including any right to claim priority of:

PCT Application No. PCT/US2005/014058, filed 25 April 2005
Title: MULTICAST MESH ROUTING PROTOCOL

Thomson Licensing S.A.

THOMSON LICENSING

By: Catherine A. Ferguson
Catherine A. Ferguson
Sr. Patent Counsel, Reg. No. 40,877
Thomson Licensing Inc.
And Attorney in Fact for
Thomson Licensing S.A.

By: Catherine A. Ferguson
Catherine A. Ferguson
Sr. Patent Counsel, Reg. No. 40,877
Thomson Licensing LLC
And Attorney in Fact for
THOMSON LICENSING

NOTARIAL CERTIFICATE

State of New Jersey)
) :ss
County of Middlesex)

I do hereby certify that Thomson Licensing S.A. and THOMSON LICENSING, mentioned in the foregoing Assignment, both having offices at the addresses listed above, are corporations organized and existing under the laws of the country of France, and that Catherine A. Ferguson, who signed the foregoing Assignment this day, is/are fully authorized to execute the document on behalf of Thomson Licensing S.A. and THOMSON LICENSING respectively for this purpose.

Signed and sealed this 26th day of September 2007.

David P. Fornarotto
Notary Public

After this Assignment has been recorded please RETURN to:
Patent Operations
Thomson Licensing LLC
PO Box 5312
Princeton, NJ 08543-5312

DAVIDA P. FORNAROTTO
NOTARY PUBLIC OF NEW JERSEY
I.D. No. 2096561
My Commission Exp. Jan. 28, 2012

CUSTOMER NO: 24498

PU050062

ASSIGNMENT AND AGREEMENT

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I hereby declare that I am the sole inventor (if only one inventor is named below) or one of
(if plural inventors are named below) of the inventions relating to
MULTICAST MESH ROUTING PROTOCOL
and described in Docket No PU050062 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 the country 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>Princeton, NJ 08540 US</u>	Date	<u>6/22/05</u>
Inventor (1)	<u>HANG LIU</u> (Type or Print)		<u>[Signature]</u> (Signature in Full. No initials.)
Post Office Address	<u>486 Keating Drive, Yardley, Pennsylvania 19067 USA</u>		
1st Witness	<u>DAVIDA FORNAROTTO</u> (Type or Print)		<u>Davida Fornarotto</u> (Signature in Full. No initials.)
2nd Witness	<u>Dorothy Kerrick</u> (Type or Print)		<u>Dorothy Kerrick</u> (Signature in Full. No initials.)
Signed at	<u>Princeton, NJ 08540 USA</u>	Date	<u>6/14/05</u>
Inventor (2)	<u>JUN LI</u> (Type or Print)		<u>[Signature]</u> (Signature in Full. No initials.)
Post Office Address	<u>26 Orchid Drive, Plainsboro, New Jersey 08536 USA</u>		
1st Witness	<u>DAVIDA FORNAROTTO</u> (Type or Print)		<u>Davida Fornarotto</u> (Signature in Full. No initials.)
2nd Witness	<u>Dorothy Kerrick</u> (Type or Print)		<u>Dorothy Kerrick</u> (Signature in Full. No initials.)
Signed at	<u>Princeton, NJ 08540 USA</u>	Date	<u>06/14/05</u>
Inventor (3)	<u>SAURABH MATHUR</u> (Type or Print)		<u>[Signature]</u> (Signature in Full. No initials.)
Post Office Address	<u>4932 Quail Ridge Drive, Plainsboro, New Jersey 08536 USA</u>		
1st Witness	<u>DAVIDA FORNAROTTO</u> (Type or Print)		<u>Davida Fornarotto</u> (Signature in Full. No initials.)
2nd Witness	<u>Dorothy Kerrick</u> (Type or Print)		<u>Dorothy Kerrick</u> (Signature in Full. No initials.)

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