

HD 581-40

PA02Rec'd PCT 03 MAY 2011

FORM PTO-1595
EXPRESS MAIL EM 534496962 US
CUSTOMER NO.: 24498
Rev 1/7/07

05/05/2011

Docket No.: PA080050

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1 Name of conveying party(ies) YAN FENG ZHANG; XIAO JUN MA; ZHI GANG ZHANG; LIN XIANG CHENG; XIAN LEI WANG Additional name(s) of conveying party(ies) attached <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2 Name and address of receiving party(ies) Name THOMSON Licensing Internal Address Street 46 Quai A. Le Gallo F-92100 Boulogne-Billancourt, France
3 Nature of convenience <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other	Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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/IB2009/07342 B Patent No (s) Additional numbers attached? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> X <p style="text-align: right; font-size: 2em;">12/998565</p>	
5 Name and address of party to whom correspondence concerning document should be mailed Name ROBERT D SHEDD 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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PATENT
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ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA

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I hereby declare that I am the sole inventor (if only one inventor is named below) or one of 5 joint inventors (if plural inventors are named below) of the inventions relating to A METHOD OF DATA RATE ADAPTATION FOR MULTICAST COMMUNICATION

described in an Application for Patent filed on November 7, 2008 under Serial No EP 08305789.3 and described in the file associated with Docket No PA080050, listed above or, if not identified here by filing date and serial number or by the Docket Number listed above, 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, 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 all the rights and privileges under any and all Letters Patent 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, 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>Thomson, Beijing office, China</u>	Date	<u>Jan. 11, 2010</u>
Inventor (1)	<u>YAN FENG ZHANG</u> (Type or Print)	<u>Yanfeng Zhang</u> (Signature in Full No initials.)	<u>(Yanfeng Zhang Jan 11, 2010)</u>
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1st Witness	<u>Kai Xie</u> (Type or Print)	<u>Kai Xie</u> (Signature in Full No initials.)	
2nd Witness	<u>Wei Zhou</u> (Type or Print)	<u>Wei Zhou</u> (Signature in Full, No initials.)	
Signed at	<u>Thomson, Beijing office, China</u>	Date	<u>Jan 11, 2010</u>
Inventor (2)	<u>XIAO JUN MA</u> (Type or Print)	<u>Xiaojun Ma</u> (Signature in Full No initials.)	
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1st Witness	<u>Wei Zhou</u> (Type or Print)	<u>Wei Zhou</u> (Signature in Full No initials.)	
2nd Witness	<u>XIA Zhijin</u> (Type or Print)	<u>XIA Zhijin</u> (Signature in Full No initials.)	
Signed at	<u>Thomson Beijing office, China</u>	Date	<u>Jan 11, 2010</u>
Inventor (3)	<u>ZHI GANG ZHANG</u> (Type or Print)	<u>Zhang Zhigang</u> (Signature in Full No initials.)	
Post Office Address	<u>Room 222, No 18 ShuanQing Road, Hai Dian District, Beijing 100085, China</u>		
1st Witness	<u>Shi Yun Tao</u> (Type or Print)	<u>Shi Yun Tao</u> (Signature in Full, No initials.)	
2nd Witness	<u>Kai Xie</u> (Type or Print)	<u>Kai Xie</u> (Signature in Full, No initials.)	

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Signed at	<u>Thomson Beijing office china</u>	Date	<u>Jan. 11. 2010</u>
Inventor (4)	<u>LIN XIANG CHENG</u> (Type or Print)		<u>chenglixiang</u> (Signature in Full No initials)
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1st Witness	<u>kai xzz</u> (Type or Print)		<u>kai xzz</u> (Signature in Full. No initials)
2nd Witness	<u>wei zhou</u> (Type or Print)		<u>wei zhou</u> (Signature in Full No initials.)
Signed at	<u>Thomson Beijing Office China</u>	Date	<u>Jan. 11, 2010</u>
Inventor (5)	<u>XIAN LEI WANG</u> (Type or Print)		<u>Wang Xianlei</u> (Signature in Full No initials)
Post Office Address	<u>Rm 03-09, 8F, Building A; Technology Fortune Center; 8 Xue Qing Road, Hai Dian District, Beijing 100085, China</u>		
1st Witness	<u>Liu Debing</u> (Type or Print)		<u>Liu Debing</u> (Signature in Full No initials.)
2nd Witness	<u>Liao Ning</u> (Type or Print)		<u>Ning Liao</u> (Signature in Full No initials.)
Signed at	_____	Date	_____
Inventor (6)	_____ (Type or Print)		_____ (Signature in Full. No initials)
Post Office Address	_____		
1st Witness	_____ (Type or Print)		_____ (Signature in Full No initials)
2nd Witness	_____ (Type or Print)		_____ (Signature in Full No initials)
Signed at	_____	Date	_____
Inventor (7)	_____ (Type or Print)		_____ (Signature in Full No initials)
Post Office Address	_____		
1st Witness	_____ (Type or Print)		_____ (Signature in Full No initials)
2nd Witness	_____ (Type or Print)		_____ (Signature in Full No initials.)

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