

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>XIANIEI WANG</td> <td>07/16/2012</td> </tr> <tr> <td>RENLEI CHEN</td> <td>07/10/2012</td> </tr> <tr> <td>NING LIAO</td> <td>08/31/2012</td> </tr> </tbody> </table>		Name	Execution Date	XIANIEI WANG	07/16/2012	RENLEI CHEN	07/10/2012	NING LIAO	08/31/2012		
Name	Execution Date										
XIANIEI WANG	07/16/2012										
RENLEI CHEN	07/10/2012										
NING LIAO	08/31/2012										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>THOMSON LICENSING</td> </tr> <tr> <td>Street Address:</td> <td>1-5 rue Jeanne d'Arc</td> </tr> <tr> <td>City:</td> <td>Issy Les Moulineaux</td> </tr> <tr> <td>State/Country:</td> <td>FRANCE</td> </tr> <tr> <td>Postal Code:</td> <td>F-92130</td> </tr> </table>		Name:	THOMSON LICENSING	Street Address:	1-5 rue Jeanne d'Arc	City:	Issy Les Moulineaux	State/Country:	FRANCE	Postal Code:	F-92130
Name:	THOMSON LICENSING										
Street Address:	1-5 rue Jeanne d'Arc										
City:	Issy Les Moulineaux										
State/Country:	FRANCE										
Postal Code:	F-92130										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13634851</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13634851						
Property Type	Number										
Application Number:	13634851										
CORRESPONDENCE DATA											
Fax Number: (609)734-6888 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 609-734-6828 Email: uspto@technicolor.com Correspondent Name: ROBERT D. SHEDD, THOMSON LICENSING LLC Address Line 1: 2 INDEPENDENCE WAY, SUITE 200 Address Line 4: PRINCETON, NEW JERSEY 08540											
ATTORNEY DOCKET NUMBER:	PA100010 US PCT										
NAME OF SUBMITTER:	PATRICIA A. VERLANGIERI										
Signature:	/Patricia A. Verlangieri, Reg No 42201/										
Date:	10/03/2013										
Total Attachments: 2 source=PA100010USASSIGNMENT#page1.tif source=PA100010USASSIGNMENT#page2.tif											

CH \$40.00 13634851

**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 below) or one of 3 joint inventors (if plural inventors are named below) of inventions relating to

NETWORK APPARATUS FOR MONITORING QUALITY OF SERVICE OF NETWORK

described in an Application filed on

March 28, 2010, under Application No. PCT/CHN2010000367 and described in the file associated with Docket No. PA100010

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 the same 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 induce 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 its or their 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.

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>Beijing, China</u> Inventor (1) <u>WANG Xianlei</u> (Type or Print) Post Office Address <u>8F, Building A TECHNOLOGY FORTUNE CENTER, 8 Xue Qing Road, Hai Dian District, 100192</u> <u>BEIJING - CHINA</u> 1st Witness <u>Nan Peiper</u> (Type or Print) 2nd Witness <u>Dong Li</u> (Type or Print)	Date <u>7/16/2012</u> <u>Wang Xianlei</u> (Signature in Full - No initials) <u>Nan Peiper</u> (Signature in Full - No initials) <u>Dong Li</u> (Signature in Full - No initials)
Signed at <u>Beijing, China</u> Inventor (2) <u>CHEN Renlei</u> (Type or Print) Post Office Address <u>8F, Building A TECHNOLOGY FORTUNE CENTER, 8 Xue Qing Road, Hai Dian District, 100192</u> <u>BEIJING - CHINA</u> 1st Witness <u>Nan Peiper</u> (Type or Print) 2nd Witness <u>Dong Li</u> (Type or Print)	Date <u>7/16/2012</u> <u>Chen Renlei</u> (Signature in Full - No initials) <u>Nan Peiper</u> (Signature in Full - No initials) <u>Dong Li</u> (Signature in Full - No initials)
Signed at _____ Inventor (3) <u>LIAO Ning</u> (Type or Print) Post Office Address <u>8F, Building A TECHNOLOGY FORTUNE CENTER, 8 Xue Qing Road, Hai Dian District, 100192</u> <u>BEIJING - CHINA</u> 1st Witness _____ (Type or Print) 2nd Witness _____ (Type or Print)	Date _____ _____ (Signature in Full - No initials) _____ (Signature in Full - No initials) _____ (Signature in Full - No initials)

After this Assignment has been reported please RETURN to:

Patent Operations
THOMSON Licensing LLC
PO Box 5312
Princeton, NJ 08543-5312

Pat Form Rev. 01/2007

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 below) or one of _____ joint inventors (if plural inventors are named below) of inventions relating to

METHOD AND APPARATUS FOR MONITORING QUALITY OF SERVICE OF NETWORK

described in an Application filed on _____
March 28, 2012 under Application No. PCT/CHN2010/000262, and described in the file associated with Docket No. PA100010

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, renewals 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 therein 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 hereinafter 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 file 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 hereinafter 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 _____	Date _____
Inventor (1) <u>WANG Xianlei</u> (Type or Print)	(Signature in Full. No initials.)
Post Office Address <u>8F, Building A TECHNOLOGY FORTUNE CENTER, 8 Xue Qing Road, Hai Dian District, 100192 BEIJING - CHINA</u>	
1st Witness _____ (Type or Print)	(Signature in Full. No initials.)
2nd Witness _____ (Type or Print)	(Signature in Full. No initials.)
Signed at _____	Date _____
Inventor (2) <u>CHEN Rendai</u> (Type or Print)	(Signature in Full. No initials.)
Post Office Address <u>8F, Building A TECHNOLOGY FORTUNE CENTER, 8 Xue Qing Road, Hai Dian District, 100192 BEIJING - CHINA</u>	
1st Witness _____ (Type or Print)	(Signature in Full. No initials.)
2nd Witness _____ (Type or Print)	(Signature in Full. No initials.)
Signed at <u>Tissy Les Moulineaux</u>	Date <u>08/31/2012</u>
Inventor (3) <u>LIAO Ning</u> (Type or Print)	(Signature in Full. No initials.) <u>Liao Ning</u>
Post Office Address <u>8F, Building A TECHNOLOGY FORTUNE CENTER, 8 Xue Qing Road, Hai Dian District, 100192 BEIJING - CHINA</u>	
1st Witness <u>Bérangère GAUDEL</u> (Type or Print)	(Signature in Full. No initials.) <u>Gauzel</u>
2nd Witness <u>Federique Desoair</u> (Type or Print)	(Signature in Full. No initials.)

After this Assignment has been recorded please RETURN to:

Patent Operations
THOMSON Licensing LLC
PO Box 5312
Princeton, NJ 08543-5312

Pat Form Rev. 01/2007