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Docket No.: PU090032

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U.S. DEPARTMENT OF COMMERCE

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To the Honorable Director of the United States Patent and Trademark Office

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Yunfei Zheng, Qian Xu, Joel Sole, Peng Yin, Xiaolan Lu

Additional name(s) of conveying party(ies) attached: ☒ No

3. Nature of convenience:
☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other

Execution Dates: **May 14, 2009, May 14, 2009, May 14, 2009, May 14, 2009 and May 14, 2009, respectively**

2. Name and address of receiving party(ies):
Name: **THOMSON LICENSING**

Street Address: **46 Quai A. Le Gallo
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Additional name(s) & address(es) attached? ☐ 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/US2010/000715**

B. Patent No.(s)

Additional numbers attached? Yes No ☒

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
SUITE 200**

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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

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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.

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Name of Person Signing

Signature Reg. No. 41,736

9/12/2011
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Customer No. 24498

Docket No. PU090032

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

13 / 138626

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 METHOD AND APPARATUS FOR REGION BASED FILTER PARAMETER SELECTION FOR DE-ARTIFACTING FILTER

described in an Application for Patent filed on March 12, 2009 under Serial No. 61/159,573 and described in the file associated with Docket No. PU090032, 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>PRINCETON, NEW JERSEY</u>	Date	<u>5/14/2009</u>
Inventor (1)	<u>Yunfei Zheng</u> (Type or Print)	<u>[Signature]</u> (Signature in Full. No initials.)	
Post Office Address	<u>5402 Ravens Crest Drive, (Middlesex County), Plainsboro, New Jersey 0856 USA</u>		
1st Witness	<u>Curtis Mooring</u> (Type or Print)	<u>[Signature]</u> (Signature in Full. No initials.)	
2nd Witness	<u>Tiffany Cervasio</u> (Type or Print)	<u>[Signature]</u> (Signature in Full. No initials.)	
Signed at	<u>PRINCETON, NEW JERSEY</u>	Date	<u>5/14/09</u>
Inventor (2)	<u>Qian Xu</u> (Type or Print)	<u>[Signature]</u> (Signature in Full. No initials.)	
Post Office Address	<u>5914 Ravens Crest Drive, (Middlesex County), Plainsboro, New Jersey 08536 USA</u>		
1st Witness	<u>Curtis Mooring</u> (Type or Print)	<u>[Signature]</u> (Signature in Full. No initials.)	
2nd Witness	<u>Tiffany Cervasio</u> (Type or Print)	<u>[Signature]</u> (Signature in Full. No initials.)	
Signed at	<u>PRINCETON, NEW JERSEY</u>	Date	<u>5/14/09</u>
Inventor (3)	<u>Joel Sole</u> (Type or Print)	<u>[Signature]</u> (Signature in Full. No initials.)	
Post Office Address	<u>1006 Quail Ridge Drive, (Middlesex County), Plainsboro, New Jersey 08536 USA</u>		
1st Witness	<u>Curtis Mooring</u> (Type or Print)	<u>[Signature]</u> (Signature in Full. No initials.)	
2nd Witness	<u>Tiffany Cervasio</u> (Type or Print)	<u>[Signature]</u> (Signature in Full. No initials.)	

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**ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR
LETTERS PATENT OF THE UNITED STATES OF AMERICA (Cont'd)**

Signed at	PRINCETON, NEW JERSEY	Date	5/14/09
Inventor (4)	Peng Yin (Type or Print)		<i>Peng Yin</i> (Signature in Full. No initials.)
	Post Office Address 49 Thoreau Drive, (Middlesex County), Plainsboro, New Jersey 08536 USA.		
1st Witness	<i>Curtis Morning</i> (Type or Print)		<i>Curtis Morning</i> (Signature in Full. No initials.)
2nd Witness	<i>Tiffany Cervasio</i> (Type or Print)		<i>Tiffany Cervasio</i> (Signature in Full. No initials.)
Signed at	PRINCETON, NEW JERSEY	Date	05/14/09
Inventor (5)	Xiaoan Lu (Type or Print)		<i>Xiaoan Lu</i> (Signature in Full. No initials.)
	Post Office Address 30 Kennedy Ct., (Somerset County), Princeton, New Jersey 08540 USA		
1st Witness	<i>Curtis Morning</i> (Type or Print)		<i>Curtis Morning</i> (Signature in Full. No initials.)
2nd Witness	<i>Tiffany Cervasio</i> (Type or Print)		<i>Tiffany Cervasio</i> (Signature in Full. No initials.)
Signed at		Date	
Inventor (6)			
	Post Office Address		
1st Witness			
2nd Witness			
Signed at		Date	
Inventor (7)			
	Post Office Address		
1st Witness			
2nd Witness			

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