

CUSTOMER NO.: 24498

IAP01Rec'd PCT 27 JUL 2011

Docket No.: PU090013

FORM PTO-1595
Rev. 01/07/2007

07/29/2011



103629869

U.S. DEPARTMENT OF COMMERCE

13/138287

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):

Joel Sole, Peng Yin, Yunfei Zheng, Cristina Gomila

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

Name: THOMSON LICENSING

Additional name(s) of
conveying party(ies)
attached:

X No

Street Address: 46 Quai A. Le Gallo
F-92100 Boulogne-Billancourt, France

3. Nature of conveyance:

X Assignment Merger
Security Agreement Change of Name
Other

Additional name(s) & address(es) attached? X No

Execution Dates: November 25, 2009, November 12, 2009, November 25, 2009,
and November 20, 2009, 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/US2009/005,730

B. Patent No.(s)

Additional numbers attached?

Yes No X

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

Street or PO 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

X Authorized to be charged to deposit account

8. Deposit account number:

07-0832

DO NOT USE THIS SPACE

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.

Paul P. Kiel

Name of Person Signing

Signature

Reg. No.40,677

7/27/11

Date

Total number of pages including cover sheet, attachments, and document 5
Total no. of pages above

DO NOT DETACH THIS PORTION

Mail documents to be recorded with this sheet to:

Mail Stop Assignment Recordation Services
Director of the United States Patent and Trademark Office
P. O. Box 1450
Alexandria, Virginia 22313-1450

Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document
and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark
Office, Office of Information Systems, PK2-1000C, Washington, D.C. 20231, and to the Office of Management and Budget, Paperwork Reduction Project
(0651-0011), Washington, D.C. 20503.

07/29/2011 HTON11 00000028 070832 13138287

01 FC:8021

40.00 DA

PATENT

REEL: 026678 FRAME: 0438

Customer No. 24498

Docket No. PU090013

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

13 / 138287

I hereby declare that I am the sole inventor (if only one inventor is named below) or one of 4 joint inventors (if plural inventors are named below) of the inventions relating to METHODS AND APPARATUS FOR TRANSFORM SELECTION IN VIDEO ENCODING AND DECODING

described in an Application for Patent filed on 21 OCTOBER 2009 under Serial No. PCT/US2009/005,730 and described in the file associated with Docket No. PU090013, 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.

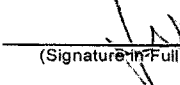
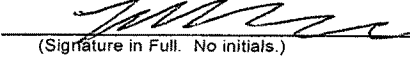
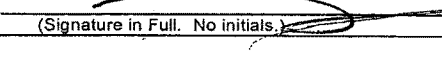
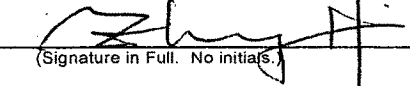
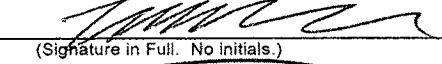
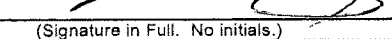
I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said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

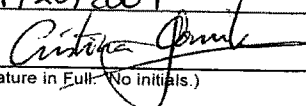
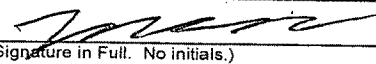
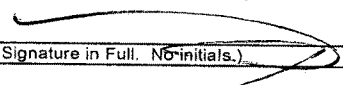
I covenant with THOMSON LICENSING, its successors, assigns, legal representatives, and nominees, that to the best of my knowledge the right, title and interest herein conveyed by me are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

Signed at	<u>PRINCETON, NEW JERSEY</u>	Date	<u>Nov. 25, 2009</u>
Inventor (1)	<u>Joel Sole</u> (Type or Print)	 (Signature in Full. No initials.)	
Post Office Address	<u>1006 Quail Ridge Drive, (Middlesex County), Plainsboro, New Jersey 08536 USA</u>		
1st Witness	<u>Tiffany Carvasio</u> (Type or Print)	 (Signature in Full. No initials.)	
2nd Witness	<u>Pearline Mooring</u> (Type or Print)	 (Signature in Full. No initials.)	
Signed at	<u>PRINCETON, NEW JERSEY</u>	Date	
Inventor (2)	<u>Peng Yin</u> (Type or Print)	 (Signature in Full. No initials.)	
Post Office Address	<u>49 Thoreau Drive, (Middlesex County), Plainsboro, New Jersey 08536 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>PRINCETON, NEW JERSEY</u>	Date	<u>Nov. 25, 2009</u>
Inventor (3)	<u>Yunfei Zheng</u> (Type or Print)	 (Signature in Full. No initials.)	
Post Office Address	<u>5402 Ravens Crest Drive, (Middlesex County), Plainsboro, New Jersey 08536 USA</u>		
1st Witness	<u>Tiffany Carvasio</u> (Type or Print)	 (Signature in Full. No initials.)	
2nd Witness	<u>Pearline Mooring</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

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

Signed at	PRINCETON, NEW JERSEY	Date	11/20/2009
Inventor (4)	Cristina Gomila (Type or Print)		 (Signature in Full. No initials.)
	Post Office Address 25C Chestnut Court, Princeton, New Jersey 08540 USA.		
1st Witness	Tiffany Corvasio (Type or Print)		 (Signature in Full. No initials.)
2nd Witness	Pearline Mouring (Type or Print)		 (Signature in Full. No initials.)
Signed at		Date	
Inventor (5)			
	(Type or Print)		(Signature in Full. No initials.)
	Post Office Address 1		
1st Witness			
	(Type or Print)		(Signature in Full. No initials.)
2nd Witness			
	(Type or Print)		(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.)

After this Assignment has been recorded please RETURN to:

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

Customer No. 24498

IAP01Rec'd PCT 27 JUL 2011

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

Docket No. PU090013

13/138287

I hereby declare that I am the sole inventor (if only one inventor is named below) or one of 4 joint inventors (if plural inventors are named below) of the inventions relating to **METHODS AND APPARATUS FOR TRANSFORM SELECTION IN VIDEO ENCODING AND DECODING**

described in an Application for Patent filed on 21 OCTOBER 2009 under Serial No. PCT/US2009/005,730 and described in the file associated with Docket No. PU090013, 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	
Inventor (1)	<u>Joel Sole</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>1006 Quail Ridge Drive, (Middlesex County), Plainsboro, New Jersey 08536 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>PRINCETON, NEW JERSEY</u>	Date	<u>11/12/2009</u>
Inventor (2)	<u>Peng Yin</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>49 Thoreau Drive, (Middlesex County), Plainsboro, New Jersey 08536 USA</u>		
1st Witness	<u>Xiaodong Cao</u> (Type or Print)		(Signature in Full. No initials.)
2nd Witness	<u>Bingxiang Cao</u> (Type or Print)		(Signature in Full. No initials.)
Signed at	<u>PRINCETON, NEW JERSEY</u>	Date	
Inventor (3)	<u>Yunfei Zheng</u> (Type or Print)		(Signature in Full. No initials.)
Post Office Address	<u>5402 Ravens Crest Drive, (Middlesex County), Plainsboro, New Jersey 08536 USA</u>		
1st Witness	(Type or Print)		(Signature in Full. No initials.)
2nd Witness	(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

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

Signed at	<u>PRINCETON, NEW JERSEY</u>	Date	
Inventor (4)	<u>Cristina Gomila</u> (Type or Print)	(Signature in Full. No initials.)	
Post Office Address	<u>25C Chestnut Court, Princeton, New Jersey 08540 USA.</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 (5)	(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 (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.)	

After this Assignment has been recorded please RETURN to:

Pat Form Rev. 03/22/2006

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