

04-06-2010

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A/D 581-1



103593865

121733947

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): <b>Yali Liu</b> <b>Xiaoan Lu</b> <b>Cristina Gomila</b> <b>Qian Xu</b>  Additional name(s) of conveying party(ies) attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): Name: <b>THOMSON LICENSING</b> <b>46 Quai A. Le Gallo ;</b> <b>F-92100 Boulogne-Billancourt, France</b>  Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ Execution Date: October 19, 26, 23 and 26, 2007 respectively	

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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/US2008/010733  Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	B. Patent No.(s)  <input type="checkbox"/> No <input checked="" type="checkbox"/> X

5. Name and address of party to whom correspondence concerning document should be mailed: Name: <b>ROBERT D. SHEDD</b> Internal Address: <b>PATENT OPERATIONS</b> <b>THOMSON LICENSING LLC</b> <b>SUITE 200</b> Street or PO Address: <b>P. O. Box 5312</b> City: <b>PRINCETON</b> State: <b>NEW JERSEY</b> Zip: <b>08543-5312</b>	6. Total number of applications and patents involved: <u>1</u>  7. Total Fee (37 CFR 3.41): <b>\$40.00</b> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: <b>07-0832</b>
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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.*

<u>Guy H. Eriksen</u> Name of Person Signing	 Signature	<u>41,736</u> Reg. No.	<u>3/30/2010</u> Date
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Customer No. 24498

Docket No. PU070241

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

**121733947**

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 METHOD AND APPARATUS FOR RATE CONTROL ACCURACY IN A VIDEO ENCODER

described in an Application for Patent filed on October 5, 2007 under Serial No. 60/977,926 and described in the file associated with Docket No. PU070241, 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.


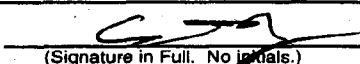
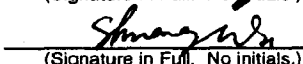
I agree that, when requested, I will, without charge to said corporation but at its expense, sign all papers, take all rightful oaths, make all rightful declarations and do all acts which may be necessary, desirable or convenient for securing and maintaining patents or other forms of protection for said 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>Davis, California</u>	Date	<u>10/19/2007</u>
Inventor (1)	<u>Yali Liu</u> (Type or Print)		 (Signature in Full. No initials.)
	Post Office Address <u>5000 Orchard Park Cir. Apt. 5725, Davis, CA 95616 USA</u>		
1st Witness	<u>En-Tzu Tang</u> (Type or Print)		 (Signature in Full. No initials.)
2nd Witness	<u>Shuang Wu</u> (Type or Print)		 (Signature in Full. No initials.)
Signed at	<u>Princeton, New Jersey</u>	Date	
Inventor (2)	<u>Xiaoan Lu</u> (Type or Print)		(Signature in Full. No initials.)
	Post Office Address <u>30 Kennedy Court, Princeton, NJ 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	<u>Princeton, New Jersey</u>	Date	
Inventor (3)	<u>Cristina Gomila</u> (Type or Print)		(Signature in Full. No initials.)
	Post Office Address <u>25C Chestnut Court, Princeton, NJ 08540 USA</u>		
1st Witness	(Type or Print)		(Signature in Full. No initials.)
2nd Witness	(Type or Print)		(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	<u>Princeton, New Jersey</u>	Date	_____
Inventor (4)	<u>Qian Xu</u> (Type or Print)	(Signature in Full. No initials.)	_____
Post Office Address	<u>5616 Ravens Crest Drive, Plainsboro, NJ 08536 USA</u>		
1st Witness	_____	(Signature in Full. No initials.)	_____
	(Type or Print)		
2nd Witness	_____	(Signature in Full. No initials.)	_____
	(Type or Print)		
Signed at	_____	Date	_____
Inventor (5)	_____	(Signature in Full. No initials.)	_____
	(Type or Print)		
Post Office Address	_____		
1st Witness	_____	(Signature in Full. No initials.)	_____
	(Type or Print)		
2nd Witness	_____	(Signature in Full. No initials.)	_____
	(Type or Print)		
Signed at	_____	Date	_____
Inventor (6)	_____	(Signature in Full. No initials.)	_____
	(Type or Print)		
Post Office Address	_____		
1st Witness	_____	(Signature in Full. No initials.)	_____
	(Type or Print)		
2nd Witness	_____	(Signature in Full. No initials.)	_____
	(Type or Print)		
Signed at	_____	Date	_____
Inventor (7)	_____	(Signature in Full. No initials.)	_____
	(Type or Print)		
Post Office Address	_____		
1st Witness	_____	(Signature in Full. No initials.)	_____
	(Type or Print)		
2nd Witness	_____	(Signature in Full. No initials.)	_____
	(Type or Print)		

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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>10/26/2007</u>
Inventor (1)	<u>Yali Liu</u> (Type or Print)		<u>(Signature in Full. No initials.)</u>
Post Office Address	<u>5000 Orchard Park Cir. Apt. 5725, Davis, CA 95616 USA</u>		
1st Witness	<u>(Type or Print)</u>		<u>(Signature in Full. No initials.)</u>
2nd Witness	<u>(Type or Print)</u>		<u>(Signature in Full. No initials.)</u>
Signed at	<u>Princeton, New Jersey</u>	Date	<u>10/26/2007</u>
Inventor (2)	<u>Xiaoan Lu</u> (Type or Print)		<u>Xiaoan Lu</u> (Signature in Full. No initials.)
Post Office Address	<u>30 Kennedy Court, Princeton, NJ 08540 USA</u>		
1st Witness	<u>Tiffany Cervasio</u> (Type or Print)		<u>(Signature in Full. No initials.)</u>
2nd Witness	<u>Curtis Manning</u> (Type or Print)		<u>(Signature in Full. No initials.)</u>
Signed at	<u>Princeton, New Jersey</u>	Date	<u>10/23/07</u>
Inventor (3)	<u>Cristina Gomila</u> (Type or Print)		<u>Cristina Gomila</u> (Signature in Full. No initials.)
Post Office Address	<u>25C Chestnut Court, Princeton, NJ 08540 USA</u>		
1st Witness	<u>Tiffany Cervasio</u> (Type or Print)		<u>(Signature in Full. No initials.)</u>
2nd Witness	<u>Curtis Manning</u> (Type or Print)		<u>(Signature in Full. No initials.)</u>

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Signed at	<u>Princeton, New Jersey</u>	Date	<u>10/26/07</u>
Inventor (4)	<u>Qian Xu</u> (Type or Print)		<u>Qian Xu</u> (Signature in Full. No initials.)
	Post Office Address	<u>5616 Ravens Crest Drive, Plainsboro, NJ 08536 USA</u>	
1st Witness	<u>Tiffany Cervantes</u> (Type or Print)		<u>[Signature]</u> (Signature in Full. No initials.)
2nd Witness	<u>Curtis Mearns</u> (Type or Print)		<u>[Signature]</u> (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.)
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Inventor (6)	_____ (Type or Print)		_____ (Signature in Full. No initials.)
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