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Docket No : PA080032

U S DEPARTMENT OF COMMERCE

12-10-2010



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1 Name of conveying party(ies) Wei Zhou Li Zou Yuping Zhao Xiaoxin Zhang Additional name(s) of conveying party(ies) attached <input checked="" type="checkbox"/> No		2 Name and address of receiving party(ies) Name THOMSON LICENSING Street Address 46 Quai A. Le Gallo F-92100 Boulogne-Billancourt, France	
3 Nature of conveyance <input checked="" type="checkbox"/> Assignment Security Agreement Other Execution Date August 13, 2009; August 16, 2009; September 1, 2009 and September 1, 2009; Respectively		Additional name(s) & address(es) attached? <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/IB2009/006041 Additional numbers attached? Yes No <input checked="" type="checkbox"/>		B Patent No (s) No <input checked="" type="checkbox"/>	
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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 <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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9 Statement and signature <i>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</i> Jerome G. Schaefer Name of Person Signing Signature Reg No 50,800 December 8, 2010 Date Total number of pages including cover sheet, attachments, and document <u>4</u> Total no. of pages above	
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Customer No. 24498

Docket No. PA080032

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 4 joint inventors (if plural inventors are named below) of the inventions relating to HIGH SPECTRUM CODED MODULATION SCHEME

described in an Application for Patent filed on June 25, 2008 under Serial No. EP 08305322.3 and described in the file associated with Docket No. PA080032, 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		Date	
Inventor (1)	<u>WEI ZHOU</u> (Type or Print)		(Signature in Full No initials)
Post Office Address	<u>No. 8413 room, 10 Xi Tu Cheng Road, Haidian District, Beijing 100086, China</u>		
1st Witness			(Signature in Full. No initials)
2nd Witness			(Signature in Full No initials)
Signed at		Date	
Inventor (2)	<u>LI ZOU</u> (Type or Print)		(Signature in Full No initials)
Post Office Address	<u>Xi Tu Cheng Rd. 25, Bld 1, RM 302, Haidian District, Beijing 100088, China</u>		
1st Witness			(Signature in Full. No initials)
2nd Witness			(Signature in Full No initials)
Signed at	<u>Beijing</u>	Date	<u>Sep. 1. 2009</u>
Inventor (3)	<u>YUPING ZHAO</u> (Type or Print)		<u>Yuping Zhao</u> (Signature in Full No initials)
Post Office Address	<u>Room 2342, School of EECS, Peking University, 100871 Xi-Er-Qi, Zhi-xue-yuan, Building No. 1, Room 901, Haidian District, Beijing 100085, China</u>		
1st Witness	<u>YU CAI</u> (Type or Print)		<u>Yu Cai</u> (Signature in Full No initials)
2nd Witness	<u>HUI ZHAO</u> (Type or Print)		<u>Hui Zhao</u> (Signature in Full. No initials.)

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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>Beijing</u>	Date	<u>2009.08.13</u>
Inventor (1)	<u>WEI ZHOU</u> (Type or Print)	<u>wei zhou</u> (Signature in Full No initials.)	
Post Office Address	<u>8/F. Bld. A. Technology Fortune Center, No. 8 Xueping Rd. Haidian District, Beijing 100086, China</u>		
1st Witness	<u>Yunwen Wu</u> (Type or Print)	<u>Yunwen Wu</u> (Signature in Full No initials.)	
2nd Witness	<u>Teng Jun</u> (Type or Print)	<u>Teng Jun</u> (Signature in Full No initials.)	
Signed at	<u>Shanghai</u>	Date	<u>Aug. 16, 2009</u>
Inventor (2)	<u>LI ZOU</u> (Type or Print)	<u>Li Zou</u> (Signature in Full No initials.)	
Post Office Address	<u>Zhongtan Rd 99, Bld 195, RM 604, Putuo District, Shanghai 200061, China</u>		
1st Witness	<u>Tiehan Lu</u> (Type or Print)	<u>Tiehan Lu</u> (Signature in Full No initials.)	
2nd Witness	<u>Changshun Chen</u> (Type or Print)	<u>Chen Changshun</u> (Signature in Full No initials.)	
Signed at		Date	
Inventor (3)	<u>YUPING ZHAO</u> (Type or Print)		(Signature in Full No initials.)
Post Office Address	<u>Xi-Er-Qi, Zhi-xue-yuan, Building No. 1, Room 901, Haidian District, Beijing 100085, China</u>		
1st Witness			(Signature in Full No initials.)
2nd Witness			(Signature in Full No initials.)

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LETTERS PATENT OF THE UNITED STATES OF AMERICA (Cont'd)**

Signed at	<u>Beijing</u>	Date	<u>Sep. 1, 2009</u>
Inventor (4)	<u>XIAOXIN ZHANG</u> (Type or Print)		<u>Xiaoxin Zhang</u> (Signature in Full. No initials.)
Post Office Address	<u>Room 330, Yingjie Communication Center, Peking University, Beijing 100871, China</u> Room 2321, Science Building 2, Peking University, Beijing 100871, China		
1st Witness	<u>YINGHUA CUI</u> (Type or Print)		<u>Yinghua Cui</u> (Signature in Full. No initials.)
2nd Witness	<u>HUI ZHAO</u> (Type or Print)		<u>Hui Zhao</u> (Signature in Full. No initials.)

Signed at		Date	
Inventor (5)			
Post Office Address			
1st Witness			
2nd Witness			

Signed at		Date	
Inventor (6)			
Post Office Address			
1st Witness			
2nd Witness			

Signed at		Date	
Inventor (7)			
Post Office Address			
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2nd Witness			

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2/2