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CUSTOMER NO.: 24498

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U.S. DEPARTMENT OF COMMERCE

12/734173

To the Honorable Director of the United States Patent and Trad	nents or copy thereof.
Name of conveying party(ies): Peng Yin, Jiancong Luo, Yong Ying Gao, and Yu Wen Wu	2. Name and address of receiving party(ies): Name: THOMSON LICENSING
Additional name(s) of X No conveying party(ies) attached:	Street Address: 46 Quai A. Le Gallo F-92100 Boulogne-Billancourt, France
3. Nature of convenance: X Assignment Merger Security Agreement Change of Name Other Execution Date: August 9, 2009, April 1, 2010, August 13, 2009, and August 12, 2009, respectively	Additional name(s) & address(es)attached? X No
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date	e of the application is:
A. Patent Application No.(s): PCT/US2008/011710 12/734173	B. Patent No.(s)
Additional numbers attached? You	es 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	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
City: PRINCETON State: NEW JERSEY Zip: 08543-5312	V/-0032
9. Statement and signature.	NOT USE THIS SPACE
To the best of my knowledge and belief, the foregoing information is true and correcopy of the original document.	λ
Guy H. Eriksen	APRIL 15, 2010
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Docket No. PU080157

ASSIGNMENT AND AGREEMENT IN AN APPLICATION FOR LETTERS PATENT OF THE UNITED STATES OF AMERICA 1734173

	ETTOS AID AIT AI	A CONTRACT LATER	RESIDUE PREDICT	TION FOR SCALABLE VID	DEO
bed in an Applicati	on for Patent filed on	October 14, 2008	under Serial I	No. PCT/US2008/11710	and described in the file associated
t No. <u>PU080157</u>	, listed above f this Assignment/Agre	•	filing date and seria	number or by the Docket N	Number listed above, executed by me on e
For valuable country of France, its I Letters Patent tha I agree that, whacts which may be resting title there I agree that I vation and at its elentatives or nomin I authorize and heir own name, or rethem, the benefit enceforth be subst I hereby conseruired in any count proper protection rial Property, as ar I covenant with	nsideration received, is successors, and assat may be granted there en requested, I will, with a necessary, desirable to in said corporation, will communicate to suppose will testify in nees, to obtain or enforcempower said corporation my/our name, in an of the right of priority tituted for it, and to involute that a copy of this as my for any purpose and for said inventions, a mended, or by any con THOMSON LICENSI	hereby sell, assign and traigns my entire right, title andefor, and any divisions, contithout charge to said corpora or convenient for securing a its successors, assigns or naid corporation or its repreany legal proceedings, and ce proper protection for said ation, its successors, assignly and all countries and to in provided by the Internationable and claim such right of psignment shall be deemed at more particularly in proof on the claim the aforesaid by vention which may hencefor NG, its successors, assign:	I interest, for all cour inuations, reissues as and maintaining paterominees. sentatives any facts generally do everyt inventions in any and sor nominees, to may oke and claim for an all Convention for the laboriority without further a full legal and formal of the right of the right of the substituted for so, legal representatives.	ntries in and to said invention detensions thereof, ie, sign all papers, take all rints or other forms of protection with the sign and papers, take all rints or other forms of protection did said countries. The sign and said to the sign and said the said the sign and said the s	ent, consent to file or like document which ors, assigns or nominees to apply for pate International Convention for the Protection the best of my knowledge the right, title
st herein conveyed	by me are free and cl	ear of any encumbrance, and	d that I have full right	to convey the same as her	ein expressed.
Signed at			Date	8/9/20	ຈ1
Inventor (1)	Peng Yin			(Signature in Full. No in	ifials.)
	t Office Address	65 Warwick Road,	West Windson	r, NJ 08550	
1st Witness	(Type or Print)	nooring		(Signature in Full. No in	itials
	(Type or Print)			(Signature in Full. No in	itials.)
Signed at			Date	8.11.20	· e \$
Inventor (2)	Jiancong Lu (Type or Print)	ю		(Signature in Full. No in	itials.)
Pos	t Office Address	3404 Hunters Gler	ude Ra i Drive, Plains t	west Winds	ON NJOSSO
1st Witness	(Type or Print)	Conasio		Signature in Full. No in	iitials.)
2ndWitness _	(Type or Print)	aning		(Signature in Full. No in	magy itials.)
Signed at			Date		
	Yong Ying	San			
Inventor (3)		<u> </u>		(Signature in Full. No in	nitials.)
Inventor (3)	(Type or Print)				
	(Type or Print)	Bldg. 6, Apt. 2-902 100101	2, 2 nd Area, Shi	Ji Cun, Chaoyang	District, Beijing, China
	,		2, 2 nd Area, Shi 	Ji Cun, Chaoyang	District, Beijing, China

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

(Type or Print)

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

Signed at			Date _	
Inventor (4)	Yu Wen Wi	u		
. ,	(Type or Print)	<u> </u>	-	(Signature in Full. No initials.)
	Post Office Address	Bldg. 14, Apt. 202, Xuan	Men W	est Street, Beijing, China 100031
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				
voiltoi (/	(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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12/734173 Docket No. PU080157

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

THEIEDY		DADATHS EAD INTE			D CCALADIE UIDEO
ventions relatin			ER-LAYEK KESIDU	E PREDICTION FO.	R SCALABLE VIDEO
scribed in an A	Application for Patent filed on	October 14, 2008	under Serial No.	PCT/US2008/11710	and described in the file associated with
ocket No. Pl	U080157 , listed above	e or, if not identified here t	y filing date and serial nu	mber or by the Docket N	umber listed above, executed by me on event
te with my exe For valu untry of France (tters Patent th	ecution of this Assignment/Agrable consideration received, I e, its successors, and assigns at may be granted therefor, and that, when requested, I will, who may be necessary, desirable the thereto in said corporation, that I will communicate to said se will testify in any legal procain or enforce proper protectioize and empower said corporate, or in my/our name, in any a efit of the right of priority provestituted for it, and to invoke a consent that a copy of this as ny country for any purpose an ection for said inventions, and ended, or by any convention with the said and the said inventions.	hereby sell, assign and tramy entire right, title and indid any divisions, continuation thout charge to said corport or convenient for securing its successors, assigns or corporation or its representeedings, and generally do in for said inventions in any titon, its successors, assigned all countries and to invoided by the International Condicialm such right of prior is signment shall be deemed more particularly in proof to claim the aforesaid bending the successors, assigns and the countries and to invoid the countries and to invoid the countries and to invoid the countries and the successors assigns and the successors assigns and the successors assigns assigns and all countries and the successors assigns and all countries and the successors assigns and the successors assigns and the successors assigns and the successors assigns and and the successors assigns and	insfer to THOMSON LICI terest, for all countries in tons, reissues and extensi- tration but at its expense, and maintaining patent- nominees. Itatives any facts known if everything possible to all and all countries. Is or nominees, to make take and claim for any app provention for the Protect fry without further written a full legal and formal e of the right of priorit estituted for it.	ENSING, a corporation do and to said inventions, arons thereof. sign all papers, take all resorted or other forms of protect or me respecting said inved said corporation, its supplication for patent or other invention of Industrial Property, or oral authorization from quivalent of any assignment or provided by the Internation of nominees, that to the inventions of the said comminees, that to the inventions of the said comminees, that to the inventions or its success.	uly organized and existing under the laws of the nd all the rights and privileges under any and all rightful oaths, make all rightful declarations and the right of the requested by said corporation and when requested by said corporation occessors, assigns and legal representatives on the form of protection for said inventions in its form of protection for said inventions filed by it as amended, or by any convention which may me. The consent to file or like document which may ons, assigns or nominees to apply for patent of the protection of Industrial past of my knowledge the right title and interest.
Signed at			Date		
Inventor (1	Peng Yin (Type or Print)	-		(Signature in Full. No init	
}	Post Office Address	65 Warwick Road		-	idis.)
			, *************************************	10 00000	
1st Witness	(Type or Print)			Signature in Full. No initi	ials.)
2ndWitness	(Type or Print)			Signature in Full. No initi	ials.)
Signed at	Princeton	·	Date	4/1/201	0
Inventor (2)	Jiancong Lu	10		Signature in Full. No initi	inte V
	Post Office Address	65 Warwick Road		•	lais.)
1st Witness	Tiffan	Cervasio		MAN	
2ndWitness	(Type or Print)	Mooring		Signature in Full. No initi	3
Signed at			Date		
Inventor (3)	Yong Ying (Type or Print) Post Office Address		2, 2 nd Area, Shi Ji	Signature in Full. No initi Cun, Chaoyang D	ials.) District, Beijing, China
1st Witness	(Type or Print)			Signature in Full. No initi	lals.)
2ndWitness					ĺ

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

Signed at			Date	
Inventor (4)	Yu Wen Wi	u		
	(Type or Print)		_	(Signature in Full. No initials.)
ī	Post Office Address	Bldg. 14, Apt. 202, Xuan	Men We	st Street, Beijing, China 100031
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.)
ı	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.)
ı	Post Office Address			
1st Witness				
, 52 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	(Type or Print)		_	(Signature in Full. No initials.)
2nd Witness	(Type or Driet)			(Signature in Full. No initials.)
	(Type or Print)			(Although in I All the mineral)
Signed at			Date	
Inventor (7)				
1	(Type or Print)		_	(Signature in Full. No initials.)
ļ	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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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 the

12/734173

Docket No. PU080157

inventions relating to METHOD AND APPARATUS FOR INTER-LAYER RESIDUE PREDICTION FOR SCALABLE VIDEO under Serial No. PCT/US2008/11710 and described in the file associated with described in an Application for Patent filed on October 14, 2008 _ , 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 Docket No. PU080157 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 Inventor (1) Peng Yin (Signature in Full. No initials.) (Type or Print) 65 Warwick Road, West Windsor, NJ 08550 Post Office Address 1st Witness (Signature in Full. No initials.) (Type or Print) 2ndWitness (Signature in Full. No initlals.) (Type or Print) Date Signed at Inventor (2) Jiancong Luo (Signature in Full. No initials.) (Type or Print) 3404 Hunters Glen Drive, Plainsboro, NJ 08550 Post Office Address 1st Witness (Signature in Full. No initials.) (Type or Print) 2ndWitness (Signature in Full. No initials.) (Type or Print) Date Signed at Inventor (3) Yong Ying Gao (Type or Print) (Signature Bldg. 6. Apt. 2-902, 2nd Area, Shi Ji Cun, Chaoyang District, Beijing, China Post Office Address 100101 SONG Ye 1st Witness (Type or Print) WANG WANG 2ndWitness (Signature in Full. No initials.) (Type or Print)

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

Signed at			Date	
Inventor (4)			_	
miveritor (4)	Yu Wen Wu (Type or Print)	<u>u</u>	_	(Signature in Full. No initials.)
ı	ost Office Address	Rida 14 Ant 202 Xuan	Men W	est Street, Beijing, China 100031
		blog. 14, Apr. 202, Adam	WELL AN	est offeet, beijing, china 100031
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.)
F	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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Signed at			Date _	
Inventor (6)				
	(Type or Print)		_	(Signature in Full. No initials.)
f	Post Office Address			
1st Witness				
	(Type or Print)		_	(Signature in Full. No initials.)
2nd Witness	(Type or Print)		_	(Signature in Full. No initials.)
	(Type of Time)			(Organization in Falls, No linears.)
Signed at			Date	
Inventor (7)				
	(Type or Print)		_	(Signature in Full. No initials.)
F	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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Docket No. PU080157

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

	ation for Patent filed on	October 14, 2008	under Serial No.	PCT/US2008/11710	and described in the file associated
tet No. <u>PU0801</u>	, listed abov	re or, if not identified here by	filing date and serial nu	mber or by the Docket No	umber listed above, executed by me on e
For valuable country of France, all Letters Patent in a gree that, will acts which may for vesting title the lagree that coration and at its esentatives or non lauthorize ar	its successors, and ass that may be granted ther when requested, I will, wi be necessary, desirable ereto in said corporation, I will communicate to sepense will testify in ninees, to obtain or enford empower said corporation of the said corporation.	I hereby sell, assign and tra igns my entire right, title and efor, and any divisions, cont thou charge to said corpora or convenient for securing a its successors, assigns or n aid corporation or its repre any legal proceedings, and cre proper protection for said ation, its successors, assign	d interest, for all countries inuations, reissues and ition but at its expense, sand maintaining patents cominees. It is expensed to everything the inventions in any and as or nominees, to make its or nominees, to make	is in and to said invention extensions thereof. sign all papers, take all rig or other forms of protection own to me respecting sign possible to aid said could application for patent or	duly organized and existing under the law is, and all the rights and privileges under the fightful declarations on for said inventions in any and all countions and when requested by reporation, its successors, assigns and lother form of protection for said inventions.
or them, the bene henceforth be sub	efit of the right of priority ostituted for it, and to inve	provided by the Internationa oke and claim such right of p	I Convention for the Pro priority without further wr	tection of Industrial Prope itten or oral authorization	her form of protection for said inventions rty, as amended, or by any convention w from me. tt, consent to file or like document which
equired in any cou r proper protectio strial Property, as 1 covenant wi	untry for any purpose and on for said inventions, a amended, or by any con ith THOMSON LICENSI	I more particularly in proof on nd to claim the aforesaid by vention which may hencefor	of the right of the said co benefits of the right of p th be substituted for it. s, legal representatives.	propration or its successor priority provided by the In and nominees, that to t	s, assigns or nominees to apply for pater iternational Convention for the Protection he best of my knowledge the right, title
Signed at		,	Date		
Inventor (1)	Peng Yin				
	(Type or Print)			Signature in Full. No initi	als.)
P	ost Office Address	65 Warwick Road,	West Windsor, I	NJ 08550	
1st Witness	(Type or Print)			Signature in Full. No initi	als.)
2ndWitness				. •	,
	(Type or Print)			Signature in Full. No initi	als.)
Signed at			Date		
ļ					
Inventor (2)	Jiancong Lu (Type or Print)	10		Signature in Full. No initi	
	(Type of Filit)		,	Signature in Fuii. No initi	uis.)
P	ost Office Address	3404 Hunters Glen	Drive, Plainsbor	o, NJ 08550	
1st Witness	(T				
1	(Type or Print)		•	Signature in Full. No initi	als.)
2ndWitness	(Type or Print)			Signature in Full. No initi	als.)
			Date		
Signed at					
	Vana Vina (>			
Signed at	Yong Ying (Зао		Signature in Full. No inition	ats.)
Inventor (3)					lstrict, Beijing, China
Inventor (3)	(Type or Print)	Bldg. 6, Apt. 2-902			·

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Signed at	Yanga Wa	Date	2005.08.12
Inventor (4)	Yu Wen Wu		Yuwen Wu
	(Type or Print)		(Signature in Full. No initials.)
P	Post Office Address Bldg. 14, Apt. 202, Xua	n Men V	Vest Street, Beijing, China 100031
1st Witness	SONG YE (Type or Print)		SONG YE (Signature in Full. No initials.)
2nd Witness	WANG Lin		Wegt-
*	(Type or Print)		(Signature in Full. (Ng/initials.)
Signed at		Date	
Inventor (5)			
	(Type or Print)		(Signature in Full. No initials.)
Р	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.)
Р	ost Office Address		
1st Witness			
	(Type or Print)		(Signature in Full. No initials.)
2nd Witness	(Type or Print)		(Signature in Full. No initials.)
	(1)	_	
Signed at		Date	
Inventor (7)			
	(Type or Print)	,	(Signature in Full. No initials.)
P	Post Office Address		
1st Witness			
.50 11111000	(Type or Print)		(Signature in Full, No initials.)
2nd Witness	(Table 2) Pales		(Signature in Euill, No initials.)
	(Type or Print)		(Signature in Full. No initials.)

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