A11581.40

IAPO3Rec'd PCT 18 FEB 2009

Express Mail # EM 284498092 US **CUSTOMER NO.: 24498**

FORM PTO-1595 Rev. 10/2005

2/18/09

02-24-2009



103549707

Docket No.: PU060162

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

12/310277

To the Honorable Director of the United States Patent and Trademark Office: Please	
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):
YAO WANG	Name: THOMSON LICENSING
JILL MACDONALD BOYCE	
Additional name(a) of Y No	
Additional name(s) of X No conveying party(ies)	Street Address: 46 Quai A. Le Gallo
attached:	
	F-92100 Boulogne-Billancourt, France
3. Nature of convenance:	-
X Assignment Merger	
Security Agreement Change of Name	
Other	
Execution Date: October 23, 2006 and September 7, 2006, respectively	Additional name(s) & address(es)attached? X No
 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/US2007/018480	B. Patent No.(s)
Additional numbers attached? Ye	es No X
5. Name and address of party to whom correspondence	6. Total number of applications and patents involved: 1
concerning document should be mailed:	
Name: ROBERT D. SHEDD	7. Taral Car (27.000.2.41). 040.00
Internal Address: PATENT OPERATIONS THOMSON LICENSING LLC	7. Total Fee (37 CFR 3.41): \$40.00 Enclosed
MOMSON EICENSING LEC	Enclosed X Authorized to be charged to deposit account
Street Address: P. O. Box 5312	Neposit account number:
Street Address. 1. O. Box 3312	07-0832
City: PRINCETON State: NEW JERSEY Zip: 08543-5312	
	NOT USE THIS SPACE
9. Statement and signature.	rest and any attached complicating
To the best of my knowledge and belief, the foregoing information is true and corr	ect and any attached copy is a true
copy of the original document.	
	2/10/1891
Robert B. Levy	
Name of Person Signing Signature	Reg. No. 28,234 Date
Total number of pages including cover sheet, attachments	s, and document _3
Total number of pages metering cover sheet, and	Total no. of pages above
	D DETACH THE BODTION
DO NO	T 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 burderestimate 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.

02/23/2009 DBYRNE

00000013 070832

12310277

40.00 UH

01 FC:8021 02/23/2009 DBYRHE

00000077 070832

PCT/USZKO/

/018486

61 FU:8821

46.06 DH

PATENT REEL: 022307 FRAME: 0980 Customer No. 24498

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

Docket No. PU060162 1 2 / 3 1 0 2 7 7

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 inventions relating to METHOD AND APPARATUS FOR DETERMINING EXPECTED DISTORTION IN DECODED VIDEO BLOCKS described in an Application for Patent filed on _AUGUST 28, 2006 under Serial No. 60/823,748 and described in the file associated with , 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. 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 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 the benefit of the right of protection for said inventions filed by the benefit of the right of protection for said inventions filed by the benefit of the right of protection for said inventions filed by the protection of the protection o 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 Brockingn Date Inventor (1) YAO WANG (Type or Print) (Signature in ¥ull. No initials.) 66 T . ORANGE LIVINGSTON Post Office Address wine Drive; Matawan, Neẃ 1st Witness (Signature in Full. MA ZHAN 2ndWitness VULU (Type or Print) (Signature in Full. No initials.) Signed at Princeton, New Jersey USA Date Inventor (2) JILL MACDONALD BOYCE (Type or Print) (Signature in Full. No initials.) Post Office Address 3 Brandywine Court, Manalapan, New Jersey 07726 USA 1st Witness (Type or Print) (Signature in Full. No initials.) 2ndWitness (Signature in Full. No initials.) (Type or Print) Date Signed at Inventor (3) (Signature in Full. No initials.) (Type or Print) Post Office Address 1st Witness (Signature in Full. No initials.) (Type or Print)

After this Assignment has been recorded please RETURN to:

(Signature in Full. No initials.)

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

Pat Form Rev. 03/21/2006

(Type or Print)

2ndWitness

IAP03Rec'd PCT 18 FEB 2009

12/310277 Docket No. PU060162

Customer No. 24498

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

	ation for Patent filed on	AUGUST 28, 2006	under Seria	No. 60/823,748	and described in the file associate
et No. <u>PU0601</u>	, listed abo	ve or, if not identified here by	filing date and seri	al number or by the Docket	Number listed above, executed by me on
For valuable ountry of France, I Letters Patent to I agree that, wacts which may resting title the I agree that I ration and at its its its attentives or normal authorize an heir own name, or them, the bene enceforth be sub I hereby cons.	its successors, and assthat may be granted ther when requested, I will, when recessary, desirable areto in said corporation, I will communicate to sexpense will testify in sinees, to obtain or enford empower said corporation in my/our name, in arefit of the right of priority betituted for it, and to invent that a copy of this as	I hereby sell, assign and traisigns my entire right, title and refor, and any divisions, contitithout charge to said corporate or convenient for securing a its successors, assigns or notated corporation or its represant legal proceedings, and ree proper protection for said ation, its successors, assigns and all countries and to inversely provided by the International oke and claim such right of passignment shall be deemed a	interest, for all counuations, reissues tion but at its exper and maintaining pat princes. Sentatives any fact generally do even inventions in any as or nominees, to now and claim for a Convention for the full legal and form:	untries in and to said inventand extensions thereof, ise, sign all papers, take all ents or other forms of protes is known to me respecting withing possible to aid said and all countries. The application for patent on a paper of industrial Prer written or oral authorizatial equivalent of any assign.	ment, consent to file or like document which
proper protection	n for said inventions, a	ind to claim the aforesaid be	enefits of the right	of priority provided by the	sors, assigns or nominees to apply for page International Convention for the Protect
I covenant wi	ITH THOMSON LICENS	ivention which may hencefort ING, its successors, assigns lear of any encumbrance, and	, legal representat	ives, and nominees, that t	to the best of my knowledge the right, tit
x neteri convey			anat i nave idii ngi		erent expressed.
Signed at	Princeton, Nev	w Jersey USA	Date		
Inventor (1)	YAO WANG	3			
	(Type or Print)			(Signature in Full. No	initials.)
Po	ost Office Address	69 Brandywine Driv	∕e, Matawan,	New Jersey 07747	USA
1st Witness					
	(Type or Print)			(Signature in Full. No	initials.)
2ndWitness	(Type or Print)			(Signature in Full. No	initials.)
Signed at	Driverton No.	Jamas LICA	Date	9/7/06	
Signed at	Princeton, Nev	w Jersey USA		- 1.01	1
Inventor (2)		ONALD BOYCE		(Signature in Full. No	the Drage
	(Type or Print)			(1.3	•
Po		3 Brandywine Cour		, New Jersey 0772	6 USA
1st Witness	Titany	Cervasi e	 -	(Signature in Full. No	initials.)
	Yeping	Su			V/ Pu
	10111N4			(Signature in Full, No	inittals.)
	(Type or Print)				
2ndWitness	(Type or Print)		Date		
2ndWitness Signed at	(Type or Pfint)		Date .		
2ndWitness	(Type or Print)		Date	(Signature in Full. No	initials.)
2ndWitness Signed at Inventor (3)	(Type or Print)		Date	(Signature in Full. No	initials.)
2ndWitness Signed at Inventor (3)	(Type or Pfint)		Date		
2ndWitness Signed at Inventor (3)	(Type or Print)		Date	(Signature in Full. No	

After this Assignment has been recorded please RETURN to:

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

Pat Form Rev. 03/21/2006

(Type or Print)

RECORDED: 02/18/2009

PATENT REEL: 022307 FRAME: 0982