12/29/09

CUSTOMER NO.: 24498 EXPRESS MAIL EM 425860942 US

FORM PTO-1595 Rev. 01/17/2007 12/452407 01-04-2010

IAP10Rec'd PCT 29 DEC 2009

U.S. DEPARTMENT OF COMMERCE

12/452407

To the Honorable Director of the United States Pat 1035853	jinal documents or copy thereof.	
Name of conveying party(ies):	Name and address of receiving party(ies):	
THOMSON BROADBAND R&D (BEIJING) CO., LTD	Name: THOMSON LICENSING	
Additional name(s) of X No	Street: 46 Quai A. Le Gallo	
conveying party(ies)	F-92100 Boulogne-Billancourt, France	
attached:	, , , , , , , , , , , , , , , , , , , ,	
3. Nature of convenance:		
X Assignment Merger		
Security Agreement Change of Name Other		
Execution Date: December 7, 2009	Additional name(s) & address(es)attached? X No	
<ol> <li>Application number(s) or patent number(s):</li> <li>If this document is being filed together with a new application, the execution date of</li> </ol>	the application is:	
A. Patent Application No.(s): PCT/CN2007/02033	B. Patent No.(s)	
7. Tatelle Application 110.(3). Text about 02000		
Additional numbers attached? Yes No X		
5. Name and address of party to whom correspondence	6. Total number of applications and patents involved:I	
concerning document should be mailed:		
Name: ROBERT D. SHEDD		
Internal Address: PATENT OPERATIONS	7. Total Fee (37 CFR 3.41): <b>\$40.00</b>	
THOMSON LICENSING LLC SUITE 200	Enclosed  X Authorized to be charged to deposit account	
Street or PO Address: P. O. Box 5312	Authorized to be charged to deposit account     Deposit account number:	
Street of 1 o Address, 11. O. Box 1312	07-0832	
City: PRINCETON State: NEW JERSEY Zip: 08543-5312		
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.		
in the state of th		
JOSEPH J. OPALACH	Reg. No. 36,229 Date	
Name of Person Signing Signature	Reg. No. 36,229 Date	
Total number of pages including for er sheet, attachments, and document2		
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.

12/31/2009 DBYRNE /002033

**83808026 07083**2

PUT/UNZUU?

R1 FC:8021

40.00 DA

00000025 070832

12452407

12/31/2009 DATRNE

61 FC:8021

40.00 DA

**PATENT REEL: 023730 FRAME: 0341**  Customer No.: 24498

Docket No.: PA0" )030 12/452407

## ASSIGNMENT

WHEREAS, Thomson Broadband R & D (Beijing) Col. Ltd. a corporation duly organized and existing under the country of China, having offices at 8th Floor, Building A, Technology Fortune Center, No. 8 Xueqing Road, Haidian District, Beijing 100085, P.R. China and THOMSON LICENSING, a corporation organized and existing under the laws of France and having offices at 46, Quai A. Le Gallo, F-92100 Boulogne-Billancourt, France, entered into an agreement calling for the assignment of certain inventions, to THOMSON LICENSING;

NOW THEREFORE, Thomson Broadband R & D (Beijing) Col. Ltd., in consideration of the mutual covenants of said agreement, does hereby assign to THOMSON LICENSING, its successors and assigns, Thomson Broadband R & D (Beijing) Col. Ltd. 's entire right, title and interest, for all countries and states, in and to, and including any right to claim priority of:

PCT Application No. PCT/CN2007/002033, filed 29 June 2007 Title: APPARATUS AND METHOD FOR REMOVING COMMON

PHASE ERROR IN A DVB-1/H RECEIVER	
Thomson Broadband R & D (Beijing) Col. Ltd.	THOMSON LICENSING
By:  Jeffrey M. Navon Sr. Patent Counsel, Reg. No. 32,711 Thomson Licensing LLC And Attorney in Fact for Thomson Broadband R & D (Beijing) Col. Ltd.	By:  Jeffrey M. Navon Sr. Patent Counsel, Reg. No. 32,711 Thomson Licensing LLC And Attorney in Fact for THOMSON LICENSING
State of New Jersey ) :ss County of Middlesex )	RTIFICATE
I do hereby certify that <b>Thomson Broadband R &amp; LICENSING</b> , mentioned in the foregoing Assignment listed above, are corporations organized and existing and France, respectively, and that <b>Jeffrey M. Nave</b>	nent, both having offices at the addresses ag under the laws of the countries of China

day, is fully authorized to execute the document on behalf of Thomson Broadband R & D (Beijing) Col. Ltd.and THOMSON LICENSING respectively for this purpose.

Signed and sealed this 7 day of December 2009.

After this Assignment has been recorded please RETURN to: Patent Operations Thomson Licensing LLC PO Box 5312 Princeton, NJ 08543-5312

Rev. 07/2008

PATENT REEL: 023730 FRAME: 0342

RECORDED: 12/29/2009