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VER SHEET

103344396 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): Thomson Licensing S.A.	2. Name and address of receiving party(ies): Name: THOMSON LICENSING
Additional name(s) of X No conveying party(ies) attached:	Street: 46 Quai A. Le Gallo F-92100 Boulogne-Billancourt, France
3. Nature of convenance: X Assignment Merger Security Agreement Change of Na Other	
Execution Date: November 1, 2006	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 app 	
A. Patent Application No.(s): PCT/US2004/026427	B. Patent No.(s) 11/397268
Additional numbers attached?	Yes No X
copy of the original document. Brian J. Cromarty	nformation is true and correct and any attached copy is a true 28 Nov 2016
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PATENT

REEL: 018662 FRAME: 0585

ASSIGNMENT

WHEREAS, Thomson Licensing S.A., a corporation duly organized and existing under the laws of France, having offices at 46, Quai A. Le Gallo, F-92100 Boulogne-Billancourt, France 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 Licensing S.A., in consideration of the mutual covenants of said agreement, does hereby assign to **THOMSON LICENSING**, its successors and assigns, Thomson Licensing S.A.'s entire right, title and interest, for all countries and states, in and to, and including any right to claim priority of:

Provisional Assignment No. 60/572,335, filed on May 19, 2004 PCT Application No. PCT/US2004/026427, filed on August 13, 2004 Title: A FILTER CONFIGURATION FOR A RECEIVER OF MULTIPLE BROADCAST STANDARD SIGNALS

Brian J. Cromarty

Thomson Licensing S.A.

Patent Coursel, Reg/L0027 Thomson Licensing Inc.

And Attorney in Fact for Thomson Licensing S.A. THOMSON LICENSING

Brian J. Cromarty

Patent Counsel, Reg. No. L0027

Thomson Licensing Inc. And Attorney in Fact for THOMSON LICENSING

NOTARIAL CERTIFICATE

State of New Jersey)	
)	:ss
County of Middlesex)	

I do hereby certify that Thomson Licensing S.A., and THOMSON LICENSING, mentioned in the foregoing Assignment, both having offices at the addresses listed above, are corporations organized and existing under the laws of the country of France, and that **Attorney**(s), Brian J. Cromarty who signed the foregoing Assignment this day, is/are fully authorized to execute the document on behalf of Thomson Licensing S.A. and THOMSON LICENSING respectively for this purpose.

Signed and sealed 1st day of November 2006.

Notary Public

After this Assignment has been recorded please RETURN to: Patent Operations Thomson Licensing Inc. PO Box 5312

RECORDED: 11/20/2006

Princeton, NJ 08543-5312

Rev. 07/2005

JOAN D. SANDERS **NOTARY PUBLIC OF NEW JERSEY** Commission Expires 1/31/2007

> PATENT REEL: 018662 FRAME: 0586