

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2651426

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>LAWRENCE TAN</td> <td>11/18/2011</td> </tr> <tr> <td>KENNETH P. MILLER</td> <td>11/18/2011</td> </tr> <tr> <td>CHRISTOPHER J. BENNETT</td> <td>12/01/2011</td> </tr> </tbody> </table>		Name	Execution Date	LAWRENCE TAN	11/18/2011	KENNETH P. MILLER	11/18/2011	CHRISTOPHER J. BENNETT	12/01/2011				
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<table border="1"> <tr> <td>Name:</td> <td>COMBINED CONDITIONAL ACCESS DEVELOPMENT AND SUPPORT, LLC</td> </tr> <tr> <td>Street Address:</td> <td>9605 SCRANTON RD.</td> </tr> <tr> <td>Internal Address:</td> <td>SUITE 700</td> </tr> <tr> <td>City:</td> <td>SAN DIEGO</td> </tr> <tr> <td>State/Country:</td> <td>CALIFORNIA</td> </tr> <tr> <td>Postal Code:</td> <td>92121</td> </tr> </table>		Name:	COMBINED CONDITIONAL ACCESS DEVELOPMENT AND SUPPORT, LLC	Street Address:	9605 SCRANTON RD.	Internal Address:	SUITE 700	City:	SAN DIEGO	State/Country:	CALIFORNIA	Postal Code:	92121
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CORRESPONDENCE DATA													
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<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>													
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ATTORNEY DOCKET NUMBER:	26141.0014U1												
NAME OF SUBMITTER:	CHARLEY F. BROWN												

Signature:	/Charley F. Brown #52,658/
Date:	12/17/2013
Total Attachments: 2 source=26141_0014U1_Assignment#page1.tif source=26141_0014U1_Assignment#page2.tif	

ASSIGNMENT

Attorney Docket No.: 26141.0014U1

Client Reference No.: 2011017104

Serial Number: 13/301,219

Filing Date: November 21, 2011

Inventor: Lawrence Tang, Kenneth P. Miller, and Christopher J Bennett

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the undersigned hereby assign to:

Combined Conditional Access Development and Support, LLC

having a place of business at 9605 Scranton Rd., Suite 700, San Diego, CA 92121, its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for Letters Patent of the United States, entitled:

SYSTEM AND METHOD FOR AUTHENTICATING DATA WHILE MINIMIZING BANDWIDTH

and identified as Attorney Docket No. 26141.0014U1 in the offices of Ballard Spahr LLP and in said application and any and all other applications, both United States and foreign, which the undersigned may file, either solely or jointly with others, on said invention or improvements, and in any and all Letters Patent of the United States and foreign countries, which may be obtained on any of said applications, and in any reissue or extension of such patents, and further assigns to said assignee the priority right provided by the International Convention.

The undersigned hereby authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent to said assignee.

The undersigned hereby authorize and request the attorneys of record in said application to insert in this assignment the filing date and serial number of said application when officially known.

The undersigned warrant themselves to be the owners of the entire right, title and interest in said invention or improvements and to have the right to make this assignment, and further warrant that there are no outstanding prior assignments, licenses, or other encumbrances on the interest herein assigned.

For said considerations and without additional charge the undersigned hereby agree, upon the request and at the expense of said assignee, its successors and assigns, to execute any and all divisional, continuation and substitute applications for said invention or improvements, and any necessary oath, affidavit or declaration relating thereto, and any application for the reissue or extension of any Letters Patent that may be granted upon said application and any and all applications and other documents for Letters Patent in foreign countries on said invention or improvements, that said assignee, its successors or assigns may deem necessary or expedient, and for the said considerations and without additional charge the undersigned authorize said assignee to apply for patents for said invention or improvements in its own name in such countries where such procedure is proper and further agree, upon the request of and without additional charge to said assignee, its successors and assigns, to cooperate to the best of the ability of the undersigned with said assignee, its successors and assigns, in any proceedings or transactions involving such applications or patents, including the preparation and execution of preliminary statements, giving and producing evidence, and performing any and all other acts necessary to obtain, maintain and enforce said Letters Patent, both United States and foreign, and vest all rights therein hereby conveyed in the

assignee, its successors and assigns, whereby said Letters Patent will be held and enjoyed by the said assignee, its successors and assigns, to the full end of the term for which said Letters Patent will be granted, as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

Date: 11-18-2011

Lawrence Tang
LAWRENCE TANG

Date: 11-18-2011

Yan N. Cole

Date: 11-18-2011

Witness
Richard E. S. [Signature]

Date: 11-18-2011

Kenneth P. Miller
KENNETH P. MILLER

Date: 11-18-2011

Richard E. S. [Signature]

Date: 11-18-2011

Witness
Yan N. Cole

Date: 12-1-2011

Witness
Christopher J. Bennett
CHRISTOPHER J. BENNETT

Date: 12-1-2011

Ch. Duane Fontana

Date: 12-1-2011

Witness
A. [Signature]

Witness