

PATENT ASSIGNMENT

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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>Charles R. Ruelke</td> <td>03/07/2013</td> </tr> <tr> <td>Yadunandana N. Rao</td> <td>03/07/2013</td> </tr> </tbody> </table>		Name	Execution Date	Charles R. Ruelke	03/07/2013	Yadunandana N. Rao	03/07/2013						
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<table border="1"> <tr> <td>Name:</td> <td>Motorola Solutions, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>1303 E. Algonquin Road</td> </tr> <tr> <td>Internal Address:</td> <td>Law Department, Intellectual Property</td> </tr> <tr> <td>City:</td> <td>Schaumburg</td> </tr> <tr> <td>State/Country:</td> <td>ILLINOIS</td> </tr> <tr> <td>Postal Code:</td> <td>60196</td> </tr> </table>		Name:	Motorola Solutions, Inc.	Street Address:	1303 E. Algonquin Road	Internal Address:	Law Department, Intellectual Property	City:	Schaumburg	State/Country:	ILLINOIS	Postal Code:	60196
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CORRESPONDENCE DATA													
Fax Number: 8475763750 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 847-576-2932 Email: USAdocketing@motorolasolutions.com Correspondent Name: Motorola Solutions, Inc. Address Line 1: 1301 E. Algonquin Road Address Line 2: IL02-5th Floor Address Line 4: Schaumburg, ILLINOIS 60196													
ATTORNEY DOCKET NUMBER:	CM15545												
NAME OF SUBMITTER:	Vernice Freebourne												
Signature:	/Vernice Freebourne/												

Date:

06/24/2013

Total Attachments: 3

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ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, **CHARLES R. RUELKE, MARGATE, FLORIDA and YADUNANDANA N. RAO, SUNRISE, FLORIDA**, have sold, assigned and transferred, and do hereby sell, assign and transfer, unto **MOTOROLA SOLUTIONS, INC.**, a corporation of the State of Delaware, having its principal office in Schaumburg, State of Illinois, United States of America, and its successors, assigns, and legal representatives, the entire right, title and interest for the United States of America in and to certain inventions relating to improvements in **METHOD AND APPARATUS FOR EXTRACTING THE QUADRATURE COMPONENT OF A COMPLEX SIGNAL FROM THE IN-PHASE COMPONENT AFTER BASEBAND DIGITIZING USING A COMPLEX TRANSFORM** (U.S. Application Number 13/730,924; Filing Date - **DECEMBER 29, 2012; Docket No. CM15545**), described, illustrated and claimed in an application for Letters Patent of the United States of America executed by us on the dates indicated by our signatures below, together with the entire right, title and interest in and to the application, and in and to Letters Patent which may be issued upon the application, and upon any nonprovisional, division, extension, continuation, reexamination or reissue thereof.

We hereby also sell, assign and transfer unto **MOTOROLA SOLUTIONS, INC.**, the entire right, title and interest in and to the invention and in and to applications for Letters Patent therefor in all countries foreign to the United States of America, including all rights under any and all international conventions and treaties in respect of the invention and the applications for Letters Patent in foreign countries, and we further authorize **MOTOROLA SOLUTIONS, INC.** to apply for Letters Patent in foreign countries directly in its own name, and to claim priority of the filing date of the application for Letters Patent of the United States of America under the provisions of any and all international conventions and treaties.

We hereby authorize and request the Commissioner of Patents of the United States of America to issue Letters Patent upon the aforesaid application, division, extension, continuation, reexamination or reissue to **MOTOROLA SOLUTIONS, INC.**, for the sole use and benefit of **MOTOROLA SOLUTIONS, INC.**, its successors, assigns and legal representatives, to the full end of the term for which Letters Patent may be granted, the same as they would have been held and enjoyed by me had this

assignment not been made, and we hereby authorize and request the equivalent authorities in foreign countries to issue the patents of their respective countries to MOTOROLA SOLUTIONS, INC.

We agree that, when requested, we will, without charge to MOTOROLA SOLUTIONS, INC., but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for the inventions in any and all countries and for vesting title thereto in MOTOROLA SOLUTIONS, INC., its successors, assigns and legal representatives or nominees.

We covenant with MOTOROLA SOLUTIONS, INC., its successors, assigns and legal representatives, that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license or other encumbrance.

Charles R. Ruelke
Charles R. Ruelke

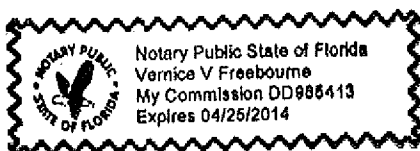
DATE: March 7, 2013

STATE OF FLORIDA)
)ss
COUNTY OF BROWARD)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **Charles R. Ruelke**, whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that they signed, sealed and delivered the instrument as their free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this 7 day of MARCH, 2013.

My commission expires:



Vernice V Freebourne
Notary Public Signature

VERNICE V. FREEBOURNE
Printed Name of Notary Public

Yadunandana N. Rao
Yadunandana N. Rao

DATE: March 07, 2013

STATE OF FLORIDA)
)ss
COUNTY OF BROWARD)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **Yadunandana N. Rao**, whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that they signed, sealed and delivered the instrument as their free and voluntary act and deed for the uses and purposes therein set forth.

Given under my hand and notarial seal this 7 day of MARCH, 2013.

My commission expires:

Vernice V. Freebourne
Notary Public Signature

VERNICE V. FREEBOURNE
Printed Name of Notary Public

