

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Vijay Nangia	03/15/2010
Robert T. Love	03/15/2010

RECEIVING PARTY DATA

Name:	Motorola, Inc.
Street Address:	1303 E. Algonquin Road
Internal Address:	IL01-3rd Floor
City:	Schaumburg
State/Country:	ILLINOIS
Postal Code:	60196

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12724188

CORRESPONDENCE DATA

Fax Number: (847)523-2350  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*  
Phone: 847-523-2350  
Email: docketing.libertyville@motorola.com  
Correspondent Name: Motorola, Inc.  
Address Line 1: 600 North U.S. Highway 45  
Address Line 4: Libertyville, ILLINOIS 60048

ATTORNEY DOCKET NUMBER:

CS37588

NAME OF SUBMITTER:

Becky Check

Total Attachments: 3

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PATENT  
REEL: 024083 FRAME: 0928

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PATENT

**ASSIGNMENT AND AGREEMENT**

For good and valuable consideration, the receipt of which is hereby acknowledged, we, **VIJAY NANGIA, ALGONQUIN, IL; AND ROBERT T. LOVE, BARRINGTON, IL;** have sold, assigned and transferred, and do hereby sell, assign and transfer, unto MOTOROLA, 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 entitled **"Antenna Port Information Signaling in PDCCH DCI for Dual-Layer Beamforming"** as described and illustrated in **Motorola Disclosure ID CS37588 (60776)** and as described, illustrated and claimed in the application for Letters Patent of the United States of America entitled **"ANTENNA PORT INFORMATION SIGNALING IN WIRELESS COMMUNICATION SYSTEM"** (Attorney Docket No. **CS37588**) 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 division, extension, continuations, reissues or re-examinations thereof.

We hereby also sell, assign and transfer unto MOTOROLA, 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, 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, divisions, extensions, continuations, reissues or re-examinations, to MOTOROLA, INC., for the sole use and benefit of MOTOROLA, 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, INC.

We agree that, when requested, we will, without charge to MOTOROLA, 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, INC., its successors, assigns and legal representatives or nominees.

We covenant with MOTOROLA, 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.

Vijay Nangia  
Vijay Nangia

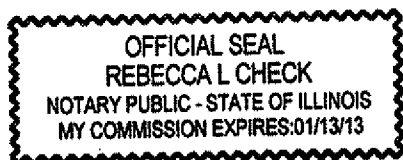
March 15, 2010  
Date

STATE OF IL )  
COUNTY OF LAKE )ss

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that Vijay Nangia, 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 15<sup>th</sup> day of March, 2010.

My commission expires:



Rebecca L. Check  
Notary Public Signature  
REBECCA L. CHECK  
Printed Name of Notary Public

Robert T. Love  
Robert T. Love

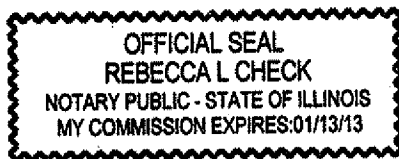
3/15/10  
Date

STATE OF IL  
COUNTY OF Kate ) ss

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that Robert T. Love, 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 15<sup>th</sup> day of March, 2010.

My commission expires:



Rebecca L. Check  
Notary Public Signature  
REBECCA L. CHECK  
Printed Name of Notary Public