

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Vijay Nangia</td> <td>03/30/2009</td> </tr> <tr> <td>Robert T Love</td> <td>03/30/2009</td> </tr> <tr> <td>Ravikiran Nory</td> <td>03/31/2009</td> </tr> </tbody> </table>		Name	Execution Date	Vijay Nangia	03/30/2009	Robert T Love	03/30/2009	Ravikiran Nory	03/31/2009				
Name	Execution Date												
Vijay Nangia	03/30/2009												
Robert T Love	03/30/2009												
Ravikiran Nory	03/31/2009												
RECEIVING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Motorola, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>1303 E. Algonquin Road</td> </tr> <tr> <td>Internal Address:</td> <td>IL01-3rd Floor</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, Inc.	Street Address:	1303 E. Algonquin Road	Internal Address:	IL01-3rd Floor	City:	Schaumburg	State/Country:	ILLINOIS	Postal Code:	60196
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													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th style="width: 70%;">Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12410449</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12410449								
Property Type	Number												
Application Number:	12410449												
CORRESPONDENCE DATA													
<p>Fax Number: (847)523-2350</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 847-523-2350</p> <p>Email: docketing.libertyville@motorola.com</p> <p>Correspondent Name: Motorola, Inc.</p> <p>Address Line 1: 600 North U.S. Highway 45</p> <p>Address Line 4: Libertyville, ILLINOIS 60048</p>													
ATTORNEY DOCKET NUMBER:	CS36747												
NAME OF SUBMITTER:	Becky Check												
<p>Total Attachments: 5</p> <p>source=CS36747_ASSIGN#page1.tif</p>													

CH \$40.00 12410449

500828962

PATENT
REEL: 022515 FRAME: 0166

source=CS36747_ASSIGN#page2.tif
source=CS36747_ASSIGN#page3.tif
source=CS36747_ASSIGN#page4.tif
source=CS36747_ASSIGN#page5.tif

PATENT

ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, **VIJAY NANGIA, ALGONQUIN, IL; ROBERT T LOVE, BARRINGTON, IL; AND RAVIKIRAN NORY, PALATINE, 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 **"PHICH Resource Signaling in a Wireless Communication System"** as described, illustrated in **Motorola Disclosure ID. CS36747 (57721)** and as described, illustrated and claimed in the following:

- 1.) **U.S. Non-Provisional Application No. 12/410,449, Confirmation No. 3224** filed on **March 24, 2009** entitled **"PHICH Resource Signaling in a Wireless Communication System"** (**Attorney Docket No. CS36747 (57721)**).

together with the entire right, title and interest in and to the applications, and in and to Letters Patent which may be issued upon the applications, and upon any divisions, extensions, 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 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 any Letters Patents 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

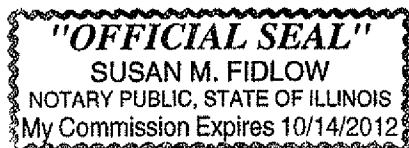
DATE: March 30, 2009

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 30th day of March, 2009.

My commission expires:



Susan M. Fidlow
Notary Public Signature

Susan M. Fidlow
Printed Name of Notary Public

-OR-


1ST WITNESS SIGNATURE DATE

1ST WITNESS PRINTED NAME

-AND-

2ND WITNESS SIGNATURE DATE

2ND WITNESS PRINTED NAME


Robert T Love

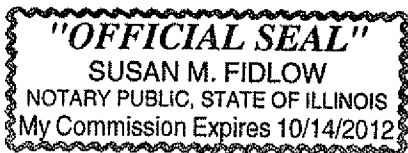
DATE: 30 Mar 2009

STATE OF IL)
COUNTY OF Saline) 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 30th day of March, 2009.

My commission expires:



Susan M. Fiddow
Notary Public Signature
Susan M. Fiddow
Printed Name of Notary Public

-OR-

1ST WITNESS SIGNATURE _____ DATE _____

1ST WITNESS PRINTED NAME

-AND-

2ND WITNESS SIGNATURE _____ DATE _____

2ND WITNESS PRINTED NAME

Servant

Ravikiran Nory

DATE: 31-MARCH-2009

STATE OF IL

COUNTY OF Lake)
) ss

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that Ravikiran Nory, 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 31st day of March, 2009.

My commission expires:



Susan M. Fidlow
Notary Public Signature
Susan M. Fidlow
Printed Name of Notary Public

-OR-

1ST WITNESS SIGNATURE _____ DATE _____

1ST WITNESS PRINTED NAME _____

-AND-

2ND WITNESS SIGNATURE _____ DATE _____

2ND WITNESS PRINTED NAME _____