

## PATENT ASSIGNMENT

Electronic Version v1.1  
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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>Gregory R. Black</td> <td>08/22/2012</td> </tr> <tr> <td>Armin W. Klomsdorf</td> <td>08/22/2012</td> </tr> </tbody> </table>		Name	Execution Date	Gregory R. Black	08/22/2012	Armin W. Klomsdorf	08/22/2012				
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Motorola Mobility LLC</td> </tr> <tr> <td>Street Address:</td> <td>600 North US Highway 45</td> </tr> <tr> <td>City:</td> <td>Libertyville</td> </tr> <tr> <td>State/Country:</td> <td>ILLINOIS</td> </tr> <tr> <td>Postal Code:</td> <td>60048</td> </tr> </table>		Name:	Motorola Mobility LLC	Street Address:	600 North US Highway 45	City:	Libertyville	State/Country:	ILLINOIS	Postal Code:	60048
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PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13591539</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13591539						
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CORRESPONDENCE DATA											
<p>Fax Number: 8475232350          Phone: 8475231276          Email: docketing.mobility@motorola.com  <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i></p> <p>Correspondent Name: Motorola Mobility LLC          Address Line 1: 600 North US Highway 45          Address Line 4: Libertyville, ILLINOIS 60048</p>											
ATTORNEY DOCKET NUMBER:	CS39193										
NAME OF SUBMITTER:	Nanette B. Orr										
<p>Total Attachments: 4          source=CS39193_ASSIGNMENT#page1.tif          source=CS39193_ASSIGNMENT#page2.tif          source=CS39193_ASSIGNMENT#page3.tif          source=CS39193_ASSIGNMENT#page4.tif</p>											

CH \$40.00 13591539

PATENT

## ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, **GREGORY R. BLACK, VERNON HILLS, ILLINOIS AND ARMIN W. KLOMSDORF, CHICAGO, ILLINOIS**, have sold, assigned and transferred, and do hereby sell, assign and transfer, unto MOTOROLA MOBILITY LLC, a Limited Liability Company of the State of Delaware, having its principal office in Libertyville, 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 "**Tunable Notch Filtering In Multi-Transmit Applications**" as described, illustrated in Motorola Disclosure ID **(63349) CS39193** and as described, illustrated and claimed in the following applications:

- 1.) U.S. Application filed herewith entitled "**TUNABLE NOTCH FILTERING IN MULTI-TRANSMIT APPLICATIONS.**"

I hereby also sell, assign and transfer unto Assignee, the entire right, title and interest in and to other applications for Letters Patent on the inventions referenced in this Assignment and Agreement, and all rights, title and interest in and to all applications for Letters Patent in respect of the invention filed under any and all international conventions and treaties together with the entire right, title and interest in and to Letters Patent which may be issued upon the application(s) or any application(s) otherwise claiming priority thereto, and upon any divisions, extensions, continuations, reissues and/or re-examinations of such application(s).

I further authorize Assignee to apply for Letters Patent directly in its own name where applicable, and to claim priority of the filing date of the application for Letters Patent filed under the laws of the applicable country and under the provisions of any and all international conventions and treaties.

I hereby authorize Assignee to 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 Assignee, for the sole use and benefit of Assignee, 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 I hereby authorize Assignee to request the equivalent

authorities in foreign countries to issue the patents of their respective countries to Assignee.

I agree that, when requested, I will, without charge to Assignee, but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing, maintaining and enforcing patents for the inventions in any and all countries and for vesting title thereto in Assignee.

I covenant with Assignee that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license or other encumbrance.

Gregory R. Black  
Gregory R. Black

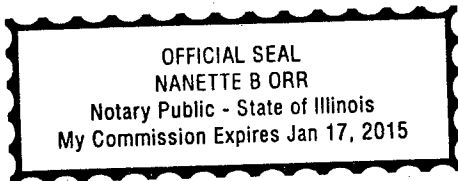
DATE: 22 Aug 12

STATE OF Illinois )  
COUNTY OF Wake )ss

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that Gregory R. Black 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 22nd day of August, 2012.

My commission expires:



Nanette B Orr  
Notary Public Signature  
Nanette B Orr  
Printed Name of Notary Public

Armin W. Klomsdorf  
Armin W. Klomsdorf

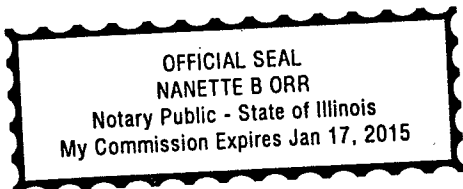
DATE: 8/22/12

STATE OF Illinois )  
COUNTY OF halse )ss

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that Armin W. Klomsdorf 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 22nd day of August, 2012.

My commission expires:



Nanette B. Orr  
Notary Public Signature  
Nanette B. Orr  
Printed Name of Notary Public