

# PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
<b>CONVEYING PARTY DATA</b>											
<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>Rapeepat Ratasuk</td> <td>08/17/2010</td> </tr> <tr> <td>Igor Filipovich</td> <td>08/17/2010</td> </tr> <tr> <td>Rangsan Leelahakriengkrai</td> <td>08/17/2010</td> </tr> <tr> <td>Ivan N. Vukovic</td> <td>08/17/2010</td> </tr> </tbody> </table>		Name	Execution Date	Rapeepat Ratasuk	08/17/2010	Igor Filipovich	08/17/2010	Rangsan Leelahakriengkrai	08/17/2010	Ivan N. Vukovic	08/17/2010
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<b>CORRESPONDENCE DATA</b>											
<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: 8475231276</p> <p>Email: docketing.libertyville@motorola.com</p> <p>Correspondent Name: Motorola, Inc.</p> <p>Address Line 1: 600 North US Highway 45</p> <p>Address Line 4: Libertyville, ILLINOIS 60048</p>											
ATTORNEY DOCKET NUMBER:	CS37891										
NAME OF SUBMITTER:	Nanette B. Orr										
<p>Total Attachments: 6</p> <p>source=CS37891_ASSIGNMENT#page1.tif</p>											

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**PATENT**  
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## ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, **RAPEEPAT RATASUK, HOFFMAN ESTATES, ILLINOIS; IGOR FILIPOVICH, CHICAGO, ILLINOIS; RANGSAN LEELAHAKRIENGKRAI, STREAMWOOD, ILLINOIS AND IVAN N. VUKOVIC, ARLINGTON HEIGHTS, ILLINOIS**, 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 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 **"Methods for Contention-Based Access in LTE-A"** as described, illustrated in Motorola Disclosure ID **(61737) CS37891** and as described, illustrated and claimed in the following applications:

1.) U.S. Application filed herewith entitled **"METHOD AND APPARATUS FOR USING CONTENTION-BASED RESOURCE ZONES FOR TRANSMITTING DATA IN A WIRELESS NETWORK."**

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.

R. R. R. R.  
Rapeepat Ratasuk

DATE: 8/17/2010

STATE OF Illinois )  
COUNTY OF Cook )ss

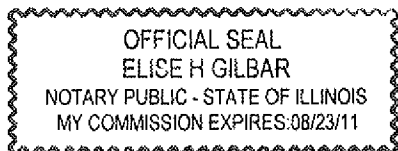
The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that Rapeepat Ratasuk whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that they signed, sealed and delivered the instrument as their free and voluntary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

Given under my hand and notarial seal this 17 day of August, 2010.

My commission expires:

Elise H Gilbar  
Notary Public Signature

Elise H Gilbar  
Printed Name of Notary Public



Igor Filipovich  
Igor Filipovich

DATE: 8/17/2010

STATE OF Illinois )  
COUNTY OF Cook )ss

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that Igor Filipovich 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 17 day of August, 2010.

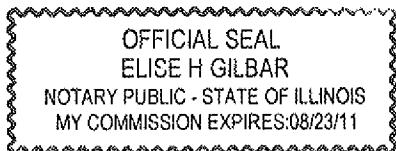
My commission expires:

Elise H Gilbar

Notary Public Signature

Elise H Gilbar

Printed Name of Notary Public



Rangsan Leelahakriengkrai  
Rangsan Leelahakriengkrai

DATE: 8/12/10

STATE OF Illinois )  
COUNTY OF Cook )ss

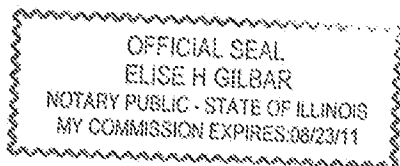
The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that Rangsan Leelahakriengkrai whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that they signed, sealed and delivered the instrument as their free and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

Given under my hand and notarial seal this 17 day of August, 2010.

My commission expires:

Elise H Gilbar  
Notary Public Signature

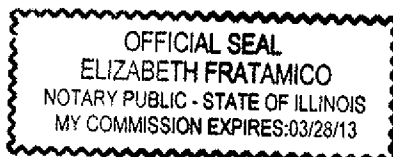
Elise H Gilbar  
Printed Name of Notary Public



Ivan N. Vukovic  
Ivan N. Vukovic

DATE: 8/17/2010

STATE OF Illinois )  
COUNTY OF COOK )ss



The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that Ivan N. Vukovic 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 17 day of August, 2010.

My commission expires:

03/28/2013

Elizabeth Fratomico  
Notary Public Signature

ELIZABETH FRATAMICO  
Printed Name of Notary Public