

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4958132

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Plamen A. Ivanov	08/21/2013
Kevin J. Bastyr	08/30/2013
Joel A. Clark	09/03/2013
Mark A. Jasiuk	08/21/2013
Tenkasi V. Ramabadran	08/23/2013
Jincheng Wu	08/26/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MOTOROLA MOBILITY LLC
<b>Street Address:</b>	600 NORTH US HIGHWAY 45
<b>City:</b>	LIBERTYVILLE
<b>State/Country:</b>	ILLINOIS
<b>Postal Code:</b>	60048
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15977397
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(877)769-7945
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	(202) 626-6404
<b>Email:</b>	apsi@fr.com
<b>Correspondent Name:</b>	SAM L. WILLIAMS
<b>Address Line 1:</b>	FISH & RICHARDSON P.C.
<b>Address Line 2:</b>	P.O.BOX 1022
<b>Address Line 4:</b>	MINNEAPOLIS, MINNESOTA 55440-1022
<b>ATTORNEY DOCKET NUMBER:</b>	16113-6317002
<b>NAME OF SUBMITTER:</b>	CHRISTINE M. TOMLINSON
<b>SIGNATURE:</b>	/Christine M. Tomlinson/
<b>DATE SIGNED:</b>	05/11/2018

**Total Attachments: 8**

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## ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, on the date indicated by my signature below, **PLAMEN A. IVANOV, KEVIN J. BASTYR, JOEL A. CLARK, MARK A. JASIUK, TENKASI V. RAMABADRAN, and JINCHENG WU** whose residence is indicated adjacent the signature below, (the "Assignor"), hereby acknowledge that I 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 "Assignee"), the entire right, title and interest in and to certain inventions entitled **"Always on Ideas 320, Noise/Voice Estimate System Control, Method for Increasing Power Efficiency by Controlling Portable Device Using Observed Signal Estimates"** as described, illustrated in Motorola Disclosure ID. (65573) CS41395 and as described, illustrated and claimed in the following applications:

U.S. Application No. **13/955,186**, filed on **July 31, 2013** entitled **"Apparatus and Method for Power Efficient Signal Conditioning in a Voice Recognition System"**

U.S. Provisional Application No. **61/827,797**, filed on **May 28, 2013** entitled **"Apparatus and Method for Power Efficient Signal Conditioning in a Voice Recognition System"**

U.S. Application No. **61/798,097**, filed on **March 15, 2013** entitled **"Voice Recognition for a Mobile Device"**

U.S. Provisional Application No. **61/776,793**, filed on **March 12, 2013** entitled **"Voice Recognition for a Mobile Device"**

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.

*Plamen A. Ivanov*  
**PLAMEN A. IVANOV**

8/24/2013  
 DATE

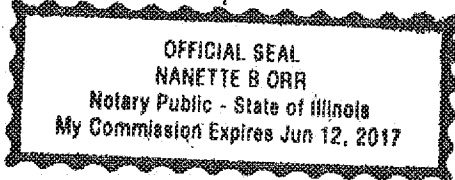
**SCHAUMBURG, ILLINOIS**

STATE OF ILLINOIS     )  
                                   )  
 COUNTY OF lake     ) ss

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **PLAMEN A. IVANOV**, 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 21st day of August, 2013.

My commission expires:



*Nanette B. Orr*

Notary Public Signature

Nanette B. Orr  
 Printed Name of Notary Public

OR:

Witness One

\_\_\_\_\_  
 Witness One Signature

\_\_\_\_\_  
 Date

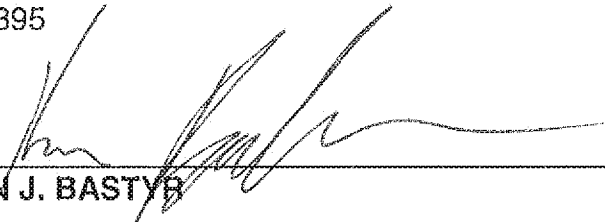
\_\_\_\_\_  
 Printed Name of Witness One

Witness Two

\_\_\_\_\_  
 Witness Two Signature

\_\_\_\_\_  
 Date

\_\_\_\_\_  
 Printed Name of Witness Two


  
 KEVIN J. BASTYR

 8-30-13  
 DATE

MILWAUKEE, WISCONSIN

STATE OF )


COUNTY OF ) ss

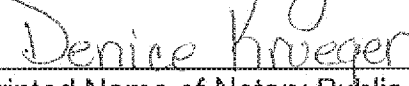
Lake )

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **KEVIN J. BASTYR**, 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 30<sup>th</sup> day of August, 2013.

My commission expires:


  
 Notary Public Signature

  
 Printed Name of Notary Public

OR:

Witness One\_\_\_\_\_  
Witness One Signature\_\_\_\_\_  
Date\_\_\_\_\_  
Printed Name of Witness OneWitness Two\_\_\_\_\_  
Witness Two Signature\_\_\_\_\_  
Date\_\_\_\_\_  
Printed Name of Witness Two

JOEL A. CLARK

9/3/2013  
DATE

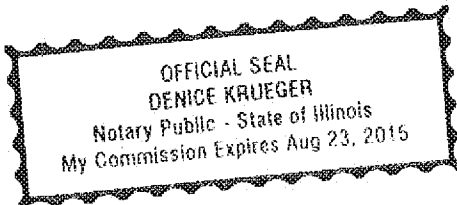
WOODRIDGE, ILLINOIS

STATE OF ILLINOIS )  
COUNTY OF Lake ) ss

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **JOEL A. CLARK**, 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 3<sup>rd</sup> day of September, 2013.

My commission expires:



Denice Krueger  
Notary Public Signature

Denice Krueger  
Printed Name of Notary Public

OR:

Witness One

\_\_\_\_\_  
Witness One Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed Name of Witness One

Witness Two

\_\_\_\_\_  
Witness Two Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed Name of Witness Two

Mark A. Jasiuk  
 MARK A. JASIUK

AUGUST 21, 2013  
 DATE

CHICAGO, ILLINOIS

STATE OF ILLINOIS )  
 ) ss  
 COUNTY OF lake )

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **MARK A. JASIUK**, 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 21st day of August, 2013.

My commission expires:



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

OR:

Witness One

\_\_\_\_\_  
 Witness One Signature

\_\_\_\_\_  
 Date

\_\_\_\_\_  
 Printed Name of Witness One

Witness Two

\_\_\_\_\_  
 Witness Two Signature

\_\_\_\_\_  
 Date

\_\_\_\_\_  
 Printed Name of Witness Two

CS41395

Tenkasi V. Ramabadrann  
TENKASI V. RAMABADRAN

Aug 23, 2013  
DATE

OSWEGO, ILLINOIS

STATE OF ILLINOIS     }  
                                      } ss  
COUNTY OF                }

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **TENKASI V. RAMABADRAN**, 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 \_\_\_\_\_ day of \_\_\_\_\_, 2013.

My commission expires:

\_\_\_\_\_  
Notary Public Signature

\_\_\_\_\_  
Printed Name of Notary Public

OR:

Witness One

[Signature]  
Witness One Signature

Aug 23, 2013  
Date

LATHA RAMABADRAN  
Printed Name of Witness One

Witness Two

[Signature]  
Witness Two Signature

Aug 23, 2013  
Date

RAJAKUMARAN CHINNAIYAN  
Printed Name of Witness Two

Jincheng WU  
JINCHENG WU

08/26/2013  
DATE

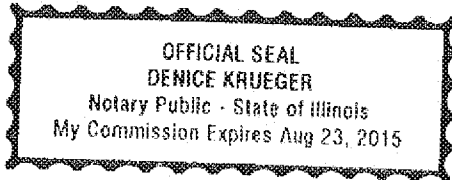
NAPERVILLE, ILLINOIS

STATE OF ILLINOIS     )  
                                  ) ss  
COUNTY OF Lake     )

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **JINCHENG WU**, 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 26<sup>th</sup> day of August, 2013.

My commission expires:



Denise Krueger  
Notary Public Signature  
Denise Krueger  
Printed Name of Notary Public

OR:

Witness One

\_\_\_\_\_  
Witness One Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed Name of Witness One

Witness Two

\_\_\_\_\_  
Witness Two Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed Name of Witness Two