

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4130339

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
CRAIG J DETTER	05/19/2014
GHOUSE ADONI MOHAMMED	05/14/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MOTOROLA MOBILITY LLC
<b>Street Address:</b>	222 WEST MERCHANDISE MART PLAZA
<b>Internal Address:</b>	SUITE 1800
<b>City:</b>	CHICAGO
<b>State/Country:</b>	ILLINOIS
<b>Postal Code:</b>	60654
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15344440
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	202-787-5523
<b>Email:</b>	pto@morriskamlay.com
<b>Correspondent Name:</b>	MORRIS & KAMLAY LLP/ 030120-M
<b>Address Line 1:</b>	1150 18TH ST. NW SUITE 575
<b>Address Line 4:</b>	WASHINGTON, D.C. 20036
<b>ATTORNEY DOCKET NUMBER:</b>	030120-124032US
<b>NAME OF SUBMITTER:</b>	TIMOTHY A. DOYLE
<b>SIGNATURE:</b>	/Timothy A. Doyle/
<b>DATE SIGNED:</b>	11/04/2016
<b>Total Attachments: 13</b>	
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## ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, **VEL PRATHEESH SANKAR, LIBERTYVILLE, ILLINOIS, GHOUSE ADONI MOHAMMED, FOLSOM, CALIFORNIA, CRAIG J. DETTER, GURNEE, ILLINOIS, and VIDYA NARAYANAN, SAN JOSE, CALIFORNIA** 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 **"Method to Predict and Detect the Point of Interest"** as described, illustrated in Disclosure ID **(65875) CS41724** and as described, illustrated and claimed in the following applications:

U.S. Application No. **14/059,586**, filed on **October 22, 2013** entitled **"Method and Apparatus for Wireless Network Data Collection"**; and

U.S. Provisional Application No. **61/862,637**, filed on **August 6, 2013** entitled **"Method and Apparatus for Wireless Network Data Collection"**

I hereby also sell, assign and transfer unto Assignee, 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 I further authorize Assignee 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.

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.

DATE: \_\_\_\_\_

\_\_\_\_\_  
**VEL PRATHEESH SANKAR**

STATE OF ILLINOIS     )  
                                  )ss  
COUNTY OF             )

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **VEL PRATHEESH SANKAR** 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 \_\_\_\_\_, 2014.

My commission expires:

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

\_\_\_\_\_  
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

\_\_\_\_\_  
**GHOUSE ADONI MOHAMMED**

DATE: \_\_\_\_\_

STATE OF CALIFORNIA     )  
                                      )ss  
COUNTY OF                    )

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **GHOUSE ADONI MOHAMMED** 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 \_\_\_\_\_, 2014.

My commission expires:

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

\_\_\_\_\_  
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

  
**CRAIG J. DETTER**

DATE: 5/19/2014

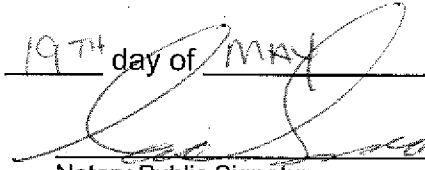
STATE OF ILLINOIS       )  
                                       )ss  
 COUNTY OF                )

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **CRAIG J. DETTER** 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 19<sup>TH</sup> day of MAY, 2014.

My commission expires



  
 Notary Public Signature

SANDRA SLONE  
 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

CS41724

\_\_\_\_\_  
**VIDYA NARAYANAN**

DATE: \_\_\_\_\_

STATE OF CALIFORNIA     )  
                                      )ss  
COUNTY OF                 )

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **VIDYA NARAYANAN** 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 \_\_\_\_\_, 2014.

My commission expires:

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

\_\_\_\_\_  
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



## ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, **VEL PRATHEESH SANKAR, LIBERTYVILLE, ILLINOIS, GHOUSE ADONI MOHAMMED, FOLSOM, CALIFORNIA, CRAIG J. DETTER, GURNEE, ILLINOIS, and VIDYA NARAYANAN, SAN JOSE, CALIFORNIA** 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 **"Method to Predict and Detect the Point of Interest"** as described, illustrated in Disclosure ID (65875) **CS41724** and as described, illustrated and claimed in the following applications:

U.S. Application No. **14/059,586**, filed on **October 22, 2013** entitled **"Method and Apparatus for Wireless Network Data Collection"**; and

U.S. Provisional Application No. **61/862,637**, filed on **August 6, 2013** entitled **"Method and Apparatus for Wireless Network Data Collection"**

I hereby also sell, assign and transfer unto Assignee, 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 I further authorize Assignee 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.

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.

CS41724

DATE: \_\_\_\_\_

\_\_\_\_\_  
**VEL PRATHEESH SANKAR**

STATE OF ILLINOIS     )  
                                  )ss  
COUNTY OF             )

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **VEL PRATHEESH SANKAR** 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 \_\_\_\_\_, 2014.

My commission expires:

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

\_\_\_\_\_  
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

CS41724

**GHOUSE ADONI MOHAMMED**

DATE:

STATE OF CALIFORNIA )  
 )ss  
COUNTY OF )

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **GHOUSE ADONI MOHAMMED** 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                      2014.

My commission expires:

Notary Public Signature

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

# CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

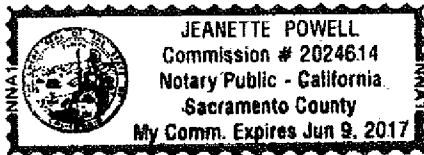
CIVIL CODE § 1189

State of California

County of SACRAMENTO

On MAY 14 2014 before me, JEANETTE POWELL, NOTARY PUBLIC

personally appeared GHOUSE ADONI MOHAMMED



who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Place Notary Seal Above

Signature: [Signature]  
Signature of Notary Public

## OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

### Description of Attached Document

Title or Type of Document: DECLARATION (CFR 116.3) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET  
Document Date: \_\_\_\_\_ Number of Pages: \_\_\_\_\_

Signer(s) Other Than Named Above: \_\_\_\_\_

### Capacity(ies) Claimed by Signer(s)

Signer's Name: \_\_\_\_\_

- ☐ Corporate Officer -- Title(s): \_\_\_\_\_
- ☐ Individual
- ☐ Partner -- ☐ Limited ☐ General
- ☐ Attorney in Fact
- ☐ Trustee
- ☐ Guardian or Conservator
- ☐ Other: \_\_\_\_\_

Signer's Name: \_\_\_\_\_

- ☐ Corporate Officer -- Title(s): \_\_\_\_\_
- ☐ Individual
- ☐ Partner -- ☐ Limited ☐ General
- ☐ Attorney in Fact
- ☐ Trustee
- ☐ Guardian or Conservator
- ☐ Other: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_

Signer Is Representing: \_\_\_\_\_

CS41724

\_\_\_\_\_  
**CRAIG J. DETTER**

DATE: \_\_\_\_\_

STATE OF ILLINOIS       )  
                                  )ss  
COUNTY OF               )

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **CRAIG J. DETTER** 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 \_\_\_\_\_, 2014.

My commission expires:

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

\_\_\_\_\_  
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

CS41724

\_\_\_\_\_  
**VIDYA NARAYANAN**

DATE: \_\_\_\_\_

STATE OF CALIFORNIA     )  
  )ss  
COUNTY OF                     )

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **VIDYA NARAYANAN** 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 \_\_\_\_\_, 2014.

My commission expires:

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Notary Public Signature

\_\_\_\_\_  
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