

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
GREGORY J. BUCHWALD	01/03/2019
THOMAS B. BOHN	01/08/2019
ARTHUR CHRISTOPHER LEYH	01/04/2019
DAVID P. GURNEY	01/09/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MOTOROLA SOLUTIONS INC.
<b>Street Address:</b>	500 W. MONROE STREET
<b>Internal Address:</b>	43RD FLOOR
<b>City:</b>	CHICAGO
<b>State/Country:</b>	ILLINOIS
<b>Postal Code:</b>	60661
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16227625
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(312)559-5695
<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>	847-576-5559
<b>Email:</b>	usadocketing@motorolasolutions.com
<b>Correspondent Name:</b>	MOTOROLA SOLUTIONS, INC.
<b>Address Line 1:</b>	500 W. MONROE ST.
<b>Address Line 2:</b>	43RD FLOOR
<b>Address Line 4:</b>	CHICAGO, ILLINOIS 60661
<b>ATTORNEY DOCKET NUMBER:</b>	PAT23057-US-PRI
<b>NAME OF SUBMITTER:</b>	NANETTE B. ORR
<b>SIGNATURE:</b>	/Nanette B. Orr/
<b>DATE SIGNED:</b>	01/09/2019
<b>Total Attachments: 6</b>	

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## ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, **GREGORY J. BUCHWALD, CRYSTAL LAKE, ILLINOIS; THOMAS B. BOHN, MCHENRY, ILLINOIS; ARTHUR CHRISTOPHER LEYH, SPRING GROVE, ILLINOIS AND DAVID P. GURNEY, CARPENTERSVILLE, ILLINOIS**, have sold, assigned and transferred, and do hereby sell, assign and transfer, unto **MOTOROLA SOLUTIONS, INC.**, a corporation of the State of Delaware, having its principal office in Chicago, 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 relating to improvements in **METHOD AND CONTROLLER TO PROVIDE LARGE GROUP DATA CALLS WHILE REDUCING GROUP ECHO**, Serial No. 16/227,625, filed December 20, 2018 (Docket No. **PAT23057-US-PRI**) , described, illustrated and claimed in an application for Letters Patent of the United States of America executed by us on the dates indicated by our signatures below, together with the entire right, title and interest in and to the application, and in and to Letters Patent which may be issued upon the application, and upon any nonprovisional, division, extension, continuation, reexamination or reissue thereof.

We hereby also sell, assign and transfer unto **MOTOROLA SOLUTIONS, INC.**, the entire right, title and interest in and to the invention and in and to applications for Letters Patent therefore 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 we further authorize **MOTOROLA SOLUTIONS, 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 Letters Patent upon the aforesaid application, division, extension, continuation, reexamination or reissue to **MOTOROLA SOLUTIONS, INC.**, for the sole use and benefit of **MOTOROLA SOLUTIONS, 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 SOLUTIONS, INC.

We agree that, when requested, we will, without charge to MOTOROLA SOLUTIONS, 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 SOLUTIONS, INC., its successors, assigns and legal representatives or nominees.

We covenant with MOTOROLA SOLUTIONS, 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.

GREGORY J. BUCHWALD

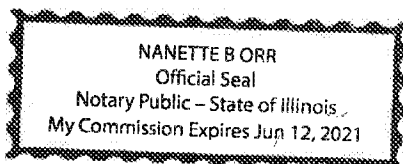
DATE: 3 JAN 2019

STATE OF ILLINOIS       )  
                                      )ss  
COUNTY OF COOK       )

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that GREGORY J. BUCHWALD, 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 3rd day of January, 2019

My commission expires:



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

OR

\_\_\_\_\_  
1st Witness (signature)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Please print name

\_\_\_\_\_  
2nd Witness (signature)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Please print name

DATE: 1/8/19

Given under my hand and notarial seal this \_\_\_\_\_ day of \_\_\_\_\_, 2019

My commission expires:

Notary Public Signature

Printed Name of Notary Public

OR

1<sup>st</sup> Witness (signature) \_\_\_\_\_ Date 1/8/2019

In Kim

2nd Witness (signature) Robert Hage Date 1/8/2019

Rodney W. Hagen  
Please print name

Arthur C. Leyh  
ARTHUR CHRISTOPHER LEYH

DATE: 1/4/2019

STATE OF ILLINOIS       )  
                                      )ss  
COUNTY OF COOK       )

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that CHRISTOPHER LEYH, 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 4<sup>th</sup> day of December, 2019

My commission expires:



[Signature]  
Notary Public Signature

Wallace R Grigsby Jr.  
Printed Name of Notary Public

OR

\_\_\_\_\_  
1<sup>st</sup> Witness (signature)

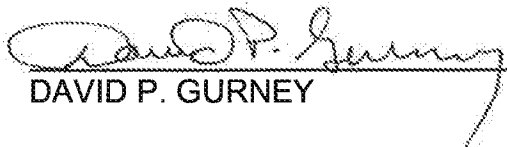
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2nd Witness (signature)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Please print name

  
DAVID P. GURNEY

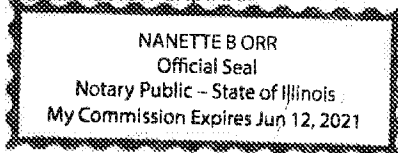
DATE: 1/9/2019

STATE OF ILLINOIS       )  
                                      )ss  
COUNTY OF COOK       )

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that DAVID P. GURNEY, 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 9th day of January, 2019

My commission expires:



  
Notary Public Signature

Nanette B. Orr  
Printed Name of Notary Public

OR

\_\_\_\_\_  
1st Witness (signature)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Please print name

\_\_\_\_\_  
2nd Witness (signature)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Please print name