

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2977658

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
RYAN P RYE	07/25/2014
CHRISTOPHER B HOUGHTON	07/25/2014
HAE RIM JEONG	07/31/2014
PETER NANNI	08/11/2014
PETER M PAVLOV	07/25/2014
MARTIN H RAMSDEN	07/25/2014
RECEIVING PARTY DATA	
Name:	MOTOROLA MOBILITY LLC
Street Address:	222 WEST MERCHANDISE MART PLAZA
Internal Address:	SUITE 1800
City:	CHICAGO
State/Country:	ILLINOIS
Postal Code:	60654
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14457354
CORRESPONDENCE DATA	
Fax Number:	(312)291-4033
<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>	
Phone:	2242402794
Email:	docketing.mobility@motorola.com
Correspondent Name:	MOTOROLA MOBILITY LLC
Address Line 1:	222 WEST MERCHANDISE MART PLAZA
Address Line 2:	SUITE 1800
Address Line 4:	CHCIAGO, ILLINOIS 60654
ATTORNEY DOCKET NUMBER:	CS42555
NAME OF SUBMITTER:	DENICE KRUEGER
SIGNATURE:	/Denice Krueger/
DATE SIGNED:	08/12/2014

PATENT

Total Attachments: 24

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ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, **RYAN P. RYE, LAWRENCEVILLE, GEORGIA, CHRISTOPHER B. HOUGHTON, CHICAGO, ILLINOIS, HAE RIM JEONG, CHICAGO, ILLINOIS, PETER NANNI, ALGONQUIN, ILLINOIS, PETER M. PAVLOV, DULUTH, GEORGIA, and MARTIN H. RAMSDEN, LAWRENCEVILLE, GEORGIA** 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 "**Compact Multi-Microphone PCB Stackup for In-Ear Wireless Headsets**" as described, illustrated in Disclosure ID (66767) CS42555 and as described, illustrated and claimed in the following applications:

U.S. Application filed herein and entitled: "**Circuit Assembly for Compact Acoustic Device**"

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: _____

RYAN P. RYE

STATE OF GEORGIA)
)ss
COUNTY OF)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **RYAN P. RYE** 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

[Signature]
CHRISTOPHER B. HOUGHTON

DATE: 7.25.14

STATE OF ILLINOIS)
)ss
COUNTY OF Cook)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **CHRISTOPHER B. HOUGHTON** 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 25th day of July, 2014.

My commission expires:



[Signature]
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

HAE RIM JEONG

DATE: _____

STATE OF ILLINOIS)
)ss
COUNTY OF)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **HAE RIM JEONG** 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

Peter Nanni
PETER NANNI

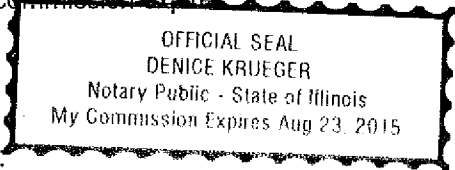
DATE: 8-11-2014

STATE OF ILLINOIS)
COUNTY OF Cook)ss

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **PETER NANNI** 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 11th day of August, 2014.

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

PETER M. PAVLOV

DATE: _____

STATE OF GEORGIA)
)ss
COUNTY OF)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **PETER M. PAVLOV** 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

MARTIN H. RAMSDEN

DATE: _____

STATE OF GEORGIA)
)ss
COUNTY OF)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **MARTIN H. RAMSDEN** 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, **RYAN P. RYE, LAWRENCEVILLE, GEORGIA, CHRISTOPHER B. HOUGHTON, CHICAGO, ILLINOIS, HAE RIM JEONG, CHICAGO, ILLINOIS, PETER NANNI, ALGONQUIN, ILLINOIS, PETER M. PAVLOV, DULUTH, GEORGIA, and MARTIN H. RAMSDEN, LAWRENCEVILLE, GEORGIA**, 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 "**Compact Multi-Microphone PCB Stackup for In-Ear Wireless Headsets**" as described, illustrated in Disclosure ID (66767) CS42555 and as described, illustrated and claimed in the following applications:

U.S. Application filed herein and entitled: "**Circuit Assembly for Compact Acoustic Device**"

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: _____

RYAN P. RYE

STATE OF GEORGIA)
)ss
COUNTY OF)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **RYAN P. RYE** 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

CHRISTOPHER B. HOUGHTON

DATE: _____

STATE OF ILLINOIS)
)ss
COUNTY OF)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **CHRISTOPHER B. HOUGHTON** 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

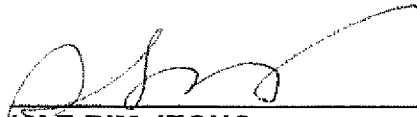
Printed Name of Witness One

Witness Two

Witness Two Signature

Date

Printed Name of Witness Two



HAE RIM JEONG

DATE: 7-31-2014

STATE OF ILLINOIS)
)ss
COUNTY OF)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **HAE RIM JEONG** 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 31 day of JULY, 2014.

My commission expires:

Notary Public Signature

Printed Name of Notary Public

OR:

Witness One



Witness One Signature

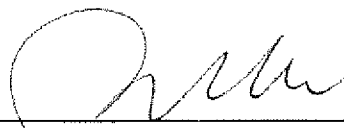
07/31/14

Date

TOSHIHIRO FUJIMURA

Printed Name of Witness One

Witness Two



Witness Two Signature

07/31/14

Date

SANGSOO PARK

Printed Name of Witness Two

PETER NANNI

DATE: _____

STATE OF ILLINOIS)
)ss
COUNTY OF)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **PETER NANNI** 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

MARTIN H. RAMSDEN

DATE: _____

STATE OF GEORGIA)
)ss
COUNTY OF)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **MARTIN H. RAMSDEN** 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, **RYAN P. RYE, LAWRENCEVILLE, GEORGIA, CHRISTOPHER B. HOUGHTON, CHICAGO, ILLINOIS, HAE RIM JEONG, CHICAGO, ILLINOIS, PETER NANNI, ALGONQUIN, ILLINOIS, PETER M. PAVLOV, DULUTH, GEORGIA, and MARTIN H. RAMSDEN, LAWRENCEVILLE, GEORGIA** 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 "**Compact Multi-Microphone PCB Stackup for In-Ear Wireless Headsets**" as described, illustrated in Disclosure ID (66767) CS42555 and as described, illustrated and claimed in the following applications:

U.S. Application filed herein and entitled: "**Circuit Assembly for Compact Acoustic Device**"

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

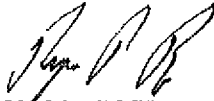
Patent filed under the laws of the applicable country and under the provisions of any and all international conventions and treaties.

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.

CS42555



RYAN P. RYE

DATE: 07/25/2014

STATE OF GEORGIA)
COUNTY OF) ss)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **RYAN P. RYE** 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 07/25/2014

AJIT CHETTY COTHA

Printed Name of Witness One

Witness Two



Witness Two Signature

Date 07/25/2014

PENG JIANG
Printed Name of Witness Two

CHRISTOPHER B. HOUGHTON

DATE: _____

STATE OF ILLINOIS)
)ss
COUNTY OF)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **CHRISTOPHER B. HOUGHTON** 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

HAE RIM JEONG

DATE: _____

STATE OF ILLINOIS)
)ss
COUNTY OF)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **HAE RIM JEONG** 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

PETER NANNI DATE: _____

STATE OF ILLINOIS)
)ss
COUNTY OF)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **PETER NANNI** 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


PETER M. PAVLOV

DATE: 7-25-2014

STATE OF GEORGIA)
)ss
COUNTY OF)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **PETER M. PAVLOV** 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

7/25/14
Date

Hyunjung Cho
Printed Name of Witness One

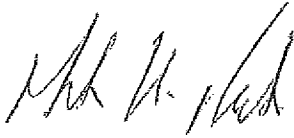
Witness Two


Witness Two Signature

07/25/2014
Date

PENG JIANG
Printed Name of Witness Two

CS42555



MARTIN H. RAMSDEN

DATE: 7/25/2014

STATE OF GEORGIA)
)ss
COUNTY OF)

The undersigned Notary Public in and for the County and State aforesaid, do hereby certify that **MARTIN H. RAMSDEN** 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.

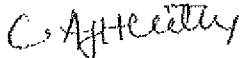
My commission expires:

Notary Public Signature

Printed Name of Notary Public

OR:

Witness One



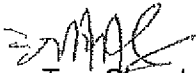
Witness One Signature

Date 07/25/2014

AJIT CHETTY LOPIA

Printed Name of Witness One

Witness Two



Witness Two Signature

Date 07/25/2014

PENG JIANG

Printed Name of Witness Two