

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6177826

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
HYEJUNG JUNG	03/23/2018
VIJAY NANGIA	03/23/2018
RAVIKIRAN NORRY	03/23/2018
JOACHIM LÖHR	03/23/2018
PRATEEK BASU MALLICK	03/23/2018
RAVI KUCHIBHOTLA	03/22/2018
ROBERT LOVE	03/23/2018
RECEIVING PARTY DATA	
Name:	MOTOROLA MOBILITY LLC
Street Address:	222 WEST MERCHANDISE MART PLAZA, SUITE 1800
City:	CHICAGO
State/Country:	ILLINOIS
Postal Code:	60654
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16915997
CORRESPONDENCE DATA	
Fax Number:	(877)685-7289
<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>	
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Email:	docketing@loppchap.com
Correspondent Name:	LOPPNOW & CHAPA [MOTOROLA]
Address Line 1:	P.O. BOX 7588
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ATTORNEY DOCKET NUMBER:	SMM02255-US-CNT
NAME OF SUBMITTER:	MATTHEW C. LOPPNOW
SIGNATURE:	/Matthew C. Loppnow/
DATE SIGNED:	06/29/2020

Total Attachments: 21

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ASSIGNMENT AND AGREEMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, we, **Hyejung Jung, Palatine, IL; Vijay Nangia, Woodridge, IL; Ravikiran Nory, Buffalo Grove, IL; Joachim Löhr, Wiesbaden, Prateek Basu Mallick, Langen, Ravi Kuchibhotla, Gurnee, IL, and Robert Love, Barrington, IL;** 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 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 described, illustrated and claimed in the following applications:

1. U.S. Application filed herein and entitled: **"METHOD AND APPARATUS FOR RANDOM ACCESS ON A WIRELESS COMMUNICATION NETWORK"**.
2. U.S. Application No. **62/601,509**, filed on **March 24, 2017** entitled **"METHOD AND APPARATUS FOR SYNCHRONIZATION SIGNAL TRANSMISSION AND RANDOM ACCESS WITH MULTI-BEAM OPERATION"**.

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).

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I covenant with Assignee that the interest and property hereby conveyed is free from all prior assignment, grant, mortgage, license or other encumbrance.

(1) Legal Name of Inventor: **Hyejung Jung**

Signature:  Date: 3/23/2018

(2) Legal Name of Inventor: **Vijay Nangia**

Signature: _____ Date: _____

(3) Legal Name of Inventor: **Ravikiran Nory**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Joachim Löhr**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Prateek Basu Mallick**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Ravi Kuchibhotla**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Robert Love**

Signature: _____ Date: _____

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(1) Legal Name of Inventor: **Hyejung Jung**

Signature: _____ Date: _____

(2) Legal Name of Inventor: **Vijay Nangia**

Signature: Vijay Nangia Date: March 23, 2018

(3) Legal Name of Inventor: **Ravikiran Nory**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Joachim Löhr**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Prateek Basu Mallick**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Ravi Kuchibhotla**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Robert Love**

Signature: _____ Date: _____

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(1) Legal Name of Inventor: **Hyejung Jung**

Signature: _____ Date: _____

(2) Legal Name of Inventor: **Vijay Nangia**

Signature: _____ Date: _____

(3) Legal Name of Inventor: **Ravikiran Nory**

Signature:  _____ Date: 23 - MAR - 2018

(4) Legal Name of Inventor: **Joachim Löhr**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Prateek Basu Mallick**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Ravi Kuchibhotla**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Robert Love**

Signature: _____ Date: _____

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(1) Legal Name of Inventor: **Hyejung Jung**

Signature: _____ Date: _____

(2) Legal Name of Inventor: **Vijay Nangia**

Signature: _____ Date: _____

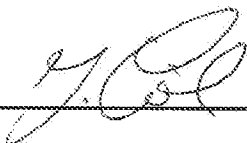
(3) Legal Name of Inventor: **Ravikiran Nory**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Joachim Löhr**

Signature: _____

Date: _____



March 23, 2018

(4) Legal Name of Inventor: **Prateek Basu Mallick**

Signature: _____

Date: _____

(4) Legal Name of Inventor: **Ravi Kuchibhotla**

Signature: _____

Date: _____

(4) Legal Name of Inventor: **Robert Love**

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Signature: _____ Date: _____

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Signature: _____ Date: _____

(3) Legal Name of Inventor: **Ravikiran Nory**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Joachim Löhr**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Prateek Basu Mallick**

Signature: Prateek Date: 23rd March, 2018

(4) Legal Name of Inventor: **Ravi Kuchibhotla**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Robert Love**

Signature: _____ Date: _____

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Signature: _____ Date: _____

(2) Legal Name of Inventor: **Vijay Nangia**

Signature: _____ Date: _____

(3) Legal Name of Inventor: **Ravikiran Nory**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Joachim Löhr**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Prateek Basu Mallick**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Ravi Kuchibhotla**

Signature:  _____ Date: March 22, 2018

(4) Legal Name of Inventor: **Robert Love**

Signature: _____ Date: _____

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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.

(1) Legal Name of Inventor: **Hyejung Jung**

Signature: _____ Date: _____

(2) Legal Name of Inventor: **Vijay Nangia**

Signature: _____ Date: _____

(3) Legal Name of Inventor: **Ravikiran Nory**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Joachim Löhr**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Prateek Basu Mallick**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Ravi Kuchibhotla**

Signature: _____ Date: _____

(4) Legal Name of Inventor: **Robert Love**

Signature: Robert T Love Date: 3/23/2018