

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT5402802

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MARCEL VAN OS	11/15/2018
LEE S. BROUGHTON	11/02/2018
PETER CALLAWAY	11/08/2018
PABLO F. CARO	11/02/2018
JAE WOO CHANG	11/02/2018
ALLISON DRYER	11/02/2018
CRAIG M. FEDERIGHI	01/17/2019
ROBERT GARCIA	11/02/2018
STEPHEN O. LEMAY	11/02/2018
JOHN LOUCH	02/11/2019
HOAN PHAM	02/11/2019

RECEIVING PARTY DATA

Name:	APPLE INC.
Street Address:	ONE APPLE PARK WAY
City:	CUPERTINO
State/Country:	CALIFORNIA
Postal Code:	95014

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16109552

CORRESPONDENCE DATA**Fax Number:**

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.

Phone: 214-259-0957**Email:** morgan.adams@dentons.com, patents.us@dentons.com**Correspondent Name:** DUANE L. CARVER, JR.**Address Line 1:** 2000 MCKINNEY AVENUE**Address Line 2:** SUITE 1900**Address Line 4:** DALLAS, TEXAS 75201

PATENT

ATTORNEY DOCKET NUMBER:	P37879US1/77770000484101
NAME OF SUBMITTER:	DUANE L. CARVER, JR.
SIGNATURE:	/Duane L. Carver, Jr./
DATE SIGNED:	03/04/2019

Total Attachments: 13

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ASSIGNMENT

This Assignment is by:

1. Marcel VAN OS
c/o Apple Inc.
One Apple Park Way
Cupertino, California 95014
2. Lee S. BROUGHTON
c/o Apple Inc.
One Apple Park Way
Cupertino, California 95014
3. Peter CALLAWAY
c/o Apple Inc.
One Apple Park Way
Cupertino, California 95014
4. Pablo F. CARO
c/o Apple Inc.
One Apple Park Way
Cupertino, California 95014
5. Jae Woo CHANG
c/o Apple Inc.
One Apple Park Way
Cupertino, California 95014
6. Allison DRYER
c/o Apple Inc.
One Apple Park Way
Cupertino, California 95014
7. Craig M. FEDERIGHI
c/o Apple Inc.
One Apple Park Way
Cupertino, California 95014
8. Robert GARCIA
c/o Apple Inc.
One Apple Park Way
Cupertino, California 95014
9. Stephen O. LEMAY
c/o Apple Inc.
One Apple Park Way
Cupertino, California 95014
10. John LOUCH
c/o Apple Inc.
One Apple Park Way
Cupertino, California 95014
11. Hoan PHAM
3627 Misty Glen Court
San Jose, California 95111

(referred to in this Assignment as "Assignors"), whose residence or mailing address information is listed above.

This Assignment is to:

Assignee: Apple Inc.
Address: One Apple Park Way, Cupertino, California 95014
A juristic entity duly organized under and pursuant to the laws of: California

(referred to in this Assignment as "Assignee"), which desires to acquire the entire right, title and interest in, to and under said patent application and the inventions covered thereby.

Assignors have invented certain new and useful inventions in:

MULTI-PARTICIPANT LIVE COMMUNICATION USER INTERFACE

for which the following application has been filed in the United States of America.

Serial No.: 16/109,552

Filing Date: August 22, 2018

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged,

1. Assignors hereby sell, assign, transfer and set over, to Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, provisional application and application for letters patent, any and all non-provisionals, divisions, continuations, and continuations-in-part claiming priority thereto or the benefit thereof, substitutions of said applications, and any and all letters patent or patents in the United States of America and all foreign countries or jurisdictions which may be granted therefor and thereon, including, without limitation, any modifications to such letters patent or patents such as through reissue, re-examination or other post-grant proceeding, any and all extensions of said letters patent or patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by Assignee (including any right to institute actions and to recover damages for past, present and future infringement), for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which letters patent or patents may be granted, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and assignment not been made.
2. Assignors represent, warrant and covenant (a) that, at the time of execution and delivery of this agreement, Assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions and said non-provisional application and application for letters patent, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner set forth in this agreement, or (b) that Assignors solely and lawfully owned the entire right, title and interest in and to said inventions and said non-provisional application and application for letters patent, and that the same were unencumbered and that Assignors sold, assigned, transferred and set over to Assignee and its successors, legal representatives and assigns, the entire right, title and interest in and to said inventions and said non-provisional application and application for letters patent.
3. Assignors shall promptly sign and execute all papers and documents, take all lawful oaths, and do all acts necessary, required or useful for the procurement, maintenance, enforcement, defense or otherwise to secure title thereto to the Assignee, at the sole cost and expense of Assignee, its successors, legal representatives and assigns, in each case including, without limitation, arising from or relating to (a) said inventions, or said non-provisional application and application for letters patent; (b) any division, continuation, or continuation-in-part claiming priority thereto or the benefit thereof, or any substitution of any such application, or (c) any letters patent or patents for said inventions in any country or jurisdiction, including, without limitation, any modifications to such letters patent or patents such as through any reissue, re-examination or other post-grant proceeding. To be clear, for purposes of this paragraph, "procurement, maintenance, enforcement, defense" shall include, without limitation, any preparation, prosecution, pre-grant proceeding, and post-grant proceeding, whether before a patent office or other administrative body or judicial body with jurisdiction therefor.
4. Assignors hereby authorize and request the Commissioner of Patents in the United States to issue the above mentioned letters patent of the United States to Assignee as the assignee of said inventions and the letters patent to be issued thereon for the sole use of Assignee, its successors, legal representatives and assigns.

5. I hereby grant to attorneys of Dentons US LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark office for recordation of this Assignment, including the power to insert on this Assignment the application number and filing date of said application when known.

In witness whereby, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date: 11.15.10

Signature: 
Marcel VAN OS

Date: _____

Signature: _____
Lee S. BROUGHTON

Date: _____

Signature: _____
Peter CALLAWAY

Date: _____

Signature: _____
Pablo F. CARO

Date: _____

Signature: _____
Jae Woo CHANG

Date: _____

Signature: _____
Allison DRYER

Date: _____

Signature: _____
Craig M. FEDERIGHI

Date: _____

Signature: _____
Robert GARCIA

Date: _____

Signature: _____
Stephen O. LEMAY

Date: _____

Signature: _____
John LOUCH

Date: _____

Signature: _____
Hoan PHAM

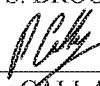
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In witness whereby, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date: _____	Signature: _____ Marcel VAN OS
Date: <u>Nov. 2 2018</u>	Signature: _____ Lee S. BROUGHTON
Date: _____	Signature: _____ Peter CALLAWAY
Date: _____	Signature: _____ Pablo F. CARO
Date: _____	Signature: _____ Jae Woo CHANG
Date: _____	Signature: _____ Allison DRYER
Date: _____	Signature: _____ Craig M. FEDERIGHI
Date: _____	Signature: _____ Robert GARCIA
Date: _____	Signature: _____ Stephen O. LEMAY
Date: _____	Signature: _____ John LOUCH
Date: _____	Signature: _____ Hoan PHAM


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In witness whereby, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date: _____	Signature: _____ Marcel VAN OS
Date: _____	Signature: _____ Lee S. BROUGHTON
Date: 11/8/2018	Signature: _____  Peter CALLAWAY
Date: _____	Signature: _____ Pablo F. CARO
Date: _____	Signature: _____ Jae Woo CHANG
Date: _____	Signature: _____ Allison DRYER
Date: _____	Signature: _____ Craig M. FEDERIGHI
Date: _____	Signature: _____ Robert GARCIA
Date: _____	Signature: _____ Stephen O. LEMAY
Date: _____	Signature: _____ John LOUCH
Date: _____	Signature: _____ Hoan PHAM

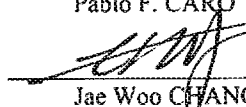
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In witness whereby, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date: _____	Signature: _____ Marcel VAN OS
Date: _____	Signature: _____ Lee S. BROUGHTON
Date: _____	Signature: _____ Peter CALLAWAY
Date: <u>Nov 2 / 18</u>	Signature:  Pablo F. CARO
Date: _____	Signature: _____ Jae Woo CHANG
Date: _____	Signature: _____ Allison DRYER
Date: _____	Signature: _____ Craig M. FEDERIGHI
Date: _____	Signature: _____ Robert GARCIA
Date: _____	Signature: _____ Stephen O. LEMAY
Date: _____	Signature: _____ John LOUCH
Date: _____	Signature: _____ Hoan PHAM

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Date: _____	Signature: _____ Marcel VAN OS
Date: _____	Signature: _____ Lee S. BROUGHTON
Date: _____	Signature: _____ Peter CALLAWAY
Date: _____	Signature: _____ Pablo F. CARO
Date: <u>11/2/2018</u>	Signature:  Jae Woo CHANG
Date: _____	Signature: _____ Allison DRYER
Date: _____	Signature: _____ Craig M. FEDERIGHI
Date: _____	Signature: _____ Robert GARCIA
Date: _____	Signature: _____ Stephen O. LEMAY
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Date: _____	Signature: _____ Peter CALLAWAY
Date: _____	Signature: _____ Pablo F. CARO
Date: _____	Signature: _____ Jae Woo CHANG
Date: <u>11/2/18</u>	Signature:  Allison DRYER
Date: _____	Signature: _____ Craig M. FEDERIGHI
Date: _____	Signature: _____ Robert GARCIA
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Date: _____	Signature: _____ Peter CALLAWAY
Date: _____	Signature: _____ Pablo F. CARO
Date: _____	Signature: _____ Jae Woo CHANG
Date: _____	Signature: _____ Allison DRYER
Date: <u>1/17/2019</u>	Signature:  Craig M. FEDERIGHI
Date: _____	Signature: _____ Robert GARCIA
Date: _____	Signature: _____ Stephen O. LEMAY
Date: _____	Signature: _____ John LOUCH
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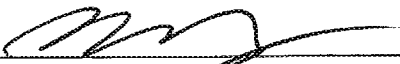
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Date: _____	Signature: _____ Pablo F. CARO
Date: _____	Signature: _____ Jac Woo CHANG
Date: _____	Signature: _____ Allison DRYER
Date: _____	Signature: _____ Craig M. FEDERIGHI
Date: 10-2-14	Signature: _____ Robert GARCIA
Date: _____	Signature: _____ Stephen O. LEMAY
Date: _____	Signature: _____ John LOUCH
Date: _____	Signature: _____ Hoan PHAM

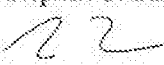
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Date:	Signature: Allison DRYER
Date:	Signature: Craig M. FEDERIGHI
Date:	Signature: Robert GARCIA
Date:	Signature: Stephen O. LEMAY
Date: 02/11/2019	Signature:  John LOUCH
Date:	Signature: Hoan PHIAM

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Craig M. FEDERIGHI

Date: _____ Signature: _____
Robert GARCIA

Date: _____ Signature: _____
Stephen O. LEMAY

Date: _____ Signature: _____
John DUKICH

Date: 2/11/19 Signature: _____
John PHAM