505631270 08/20/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5678076

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SAWYER I. COHEN	07/23/2019
JUSTIN D. CROSBY	07/25/2019
RUCHIR M. DAVE	07/25/2019
MARTIN E. JOHNSON	08/12/2019
BENJAMIN J. POPE	07/24/2019
DARIUS A. SATONGAR	08/08/2019

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:	16456839

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: 1 415 882 0103

Email: kat.bond@dentons.com, patent.docket@dentons.com

Correspondent Name: ERNEST ESTES
Address Line 1: ONE MARKET PLAZA

Address Line 2: SPEAR TOWER, 24TH FLOOR

Address Line 4: SAN FRANCISCO, CALIFORNIA 94105

ATTORNEY DOCKET NUMBER: P36070US1/77770000478101

NAME OF SUBMITTER: ERNEST ESTES

SIGNATURE: /Ernest Estes/

DATE SIGNED: 08/20/2019

PATENT 505631270 REEL: 050110 FRAME: 0971

Total Attachments: 6 source=P36070US1_Assignment#page1.tif source=P36070US1_Assignment#page2.tif source=P36070US1_Assignment#page3.tif source=P36070US1_Assignment#page4.tif source=P36070US1_Assignment#page5.tif source=P36070US1_Assignment#page6.tif

PATENT REEL: 050110 FRAME: 0972

ASSIGNMENT

This Assignment is by:

- Sawyer I. COHEN
 c/o Apple Inc.
 One Apple Park Way
 Cupertino, California 95014
- Justin D. CROSBY
 c/o Apple Inc.
 One Apple Park Way
 Cupertino, California 95014
- Ruchir M. DAVE
 c/o Apple Inc.
 One Apple Park Way
 Cupertino, California 95014
- Martin E. JOHNSON
 c/o Apple Inc.
 One Apple Park Way
 Cupertino, California 95014
- Benjamin J. POPE
 c/o Apple Inc.
 One Apple Park Way
 Cupertino, California 95014
- Darius A. SATONGAR

 c/o Apple Inc.

 One Apple Park Way

 Cupertino, California 95014

(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:

AUDIO ASSISTED ENROLLMENT

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

Serial No.: 16/456,839 Filing Date: June 28, 2019

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

Dentons US LLP 112851617 1

- 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.
- 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 ouths, 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 assignce 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: 7/23/19	Signature: Ha L Sawyer I. COHEN
Date:	Signature: Justin D. CROSBY
Date:	Signature:Ruchir M. DAVE
Date:	Signature:

Dentons US LLP 112851617

- 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.
- 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).

Darc	Samyer L. GOHEN
Date: 25 11/ 2019	Signature: Justin D. CROSBY
Date: 25 544 2019	Signature: Ruchir 54-DAVE
Date:	Signature:Martin E. JOHNSON

Attorney Docket No.: P36070USP1/77770000478001

Date:	ANG 12 2019	Signature:	M TO
			Martin E. JOHNSON
Date:	,	Signature:	
			Benjamin J. POPE
Date:		Signature:	
			Darius A. SATONGAR

Dentons US LLP 109440732

DATENT

3

Date: 24 July 2019	Signature: Denjamin POPE
Date:	Signature: Darius A. SATONGAR

Date:	Signature:	
		Benjamin J. POPE
Date: 08/08/2019	Signature:	DAS-5_
		Darius A. SATONGAR

Dentons US LLP 112851617

RECORDED: 08/20/2019