

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JODY AKANA	01/02/2018
MOLLY ANDERSON	12/04/2017
BARTLEY K. ANDRE	01/05/2018
SHOTA AOYAGI	01/05/2018
ANTHONY MICHAEL ASHCROFT	12/06/2017
MARINE C. BATAILLE	01/08/2018
JEREMY BATAILLOU	12/15/2017
DANIELE DE IULIIS	12/04/2017
MARKUS DIEBEL	12/04/2017
M. EVANS HANKEY	01/19/2018
JULIAN HOENIG	12/05/2017
RICHARD P. HOWARTH	12/04/2017
JONATHAN P. IVE	01/05/2018
JULIAN JAEDE	12/04/2017
DUNCAN ROBERT KERR	12/06/2017
PETER RUSSELL-CLARKE	12/05/2017
BENJAMIN ANDREW SHAFFER	12/04/2017
MIKAEL SILVANTO	12/05/2017
CHRISTOPHER J. STRINGER	12/06/2017
JOE SUNG HO TAN	12/04/2017
CLEMENT TISSANDIER	12/04/2017
EUGENE ANTONY WHANG	12/05/2017
RICO ZÖRKENDÖRFER	12/04/2017

RECEIVING PARTY DATA

Name:	APPLE INC.
Street Address:	1 INFINITE LOOP
City:	CUPERTINO
State/Country:	CALIFORNIA
Postal Code:	95014

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	29615344

CORRESPONDENCE DATA**Fax Number:** (202)371-2540***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:** 2023712600**Email:** abenavides@skgf.com, amottley@skgf.com**Correspondent Name:** STERNE KESSLER GOLDSTEIN & FOX PLLC**Address Line 1:** 1100 NEW YORK AVE NW**Address Line 4:** WASHINGTON, D.C. 20005**ATTORNEY DOCKET NUMBER:** 3607.1960000**NAME OF SUBMITTER:** CHARLES D. HAMMOND**SIGNATURE:** /Charles D. Hammond #73,287/**DATE SIGNED:** 02/05/2018**Total Attachments: 46**

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ASSIGNMENT

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(a) in the invention(s) known as **ELECTRONIC DEVICE** for which an application(s) for patent in the United States of America has been executed by the undersigned and has a filing date or a 371(c) date of August 28, 2017 (also known as United States Application No. 29/615,344), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

(b) in any and all application(s) that claim the benefit of the patent application listed above in part (a), including non-provisional applications, continuing (continuation, divisional, or continuation-in-part) applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all invention(s) described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the undersigned inventors had this assignment and sale not been made.

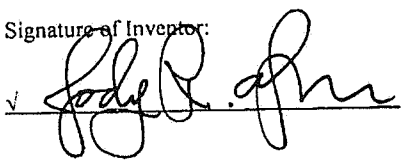
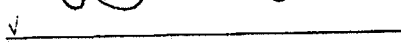
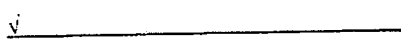

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The undersigned inventors hereby represent that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

The undersigned inventors hereby grant the patent practitioners associated with **CUSTOMER NUMBER 63975** the power to insert in this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, executed by the undersigned inventors on the dates opposite the undersigned names.

	Date:	Signature of Inventor:	Name:
1.	1/2/18		Jody AKANA
2.	1/1		Molly ANDERSON
3.	1/1		Bartley K. ANDRE
4.	1/1		Shota AOYAGI



	Date:	Signature of Inventor:	Name:
5.	<u> / / </u>	<u> √ </u>	Anthony Michael ASHCROFT
6.	<u> / / </u>	<u> √ </u>	Marine C. BATAILLE
7.	<u> / / </u>	<u> √ </u>	Jeremy BATAILLOU
8.	<u> / / </u>	<u> √ </u>	Daniele DE IULIIS
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23.	<u> / / </u>	<u> √ </u>	Rico ZÖRKENDÖRFER



Sterne, Kessler, Goldstein & Fox P.L.L.C.
Appl. No. 29/615,344
Atty. Docket No. 3607.1960000(P32380US4)

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by each of the undersigned inventors: Jody AKANA, Molly ANDERSON, Bartley K. ANDRE, Shota AOYAGI, Anthony Michael ASHCROFT, Marine C. BATAILLE, Jeremy BATAILLOU, Daniele DE IULIIS, Markus DIEBEL, M. Evans HANKEY, Julian HOENIG, Richard P. HOWARTH, Jonathan P. IVE, Julian JAEDE, Duncan Robert KERR, Peter RUSSELL-CLARKE, Benjamin Andrew SHAFFER, Mikael SILVANTO, Christopher J. STRINGER, Joe Sung Ho TAN, Clement TISSANDIER, Eugene Antony WHANG and Rico ZÖRKENDÖRFER, the undersigned hereby sell and assign to Apple Inc., a corporation formed under the laws of the State of California, whose mailing address is 1 Infinite Loop, Cupertino, CA 95014 (hereafter referred to as the Assignee), his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages, for the United States of America (as defined in 35 U.S.C. § 100) and throughout the world.

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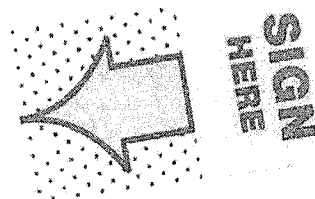
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	Date:	Signature of Inventor:	Name:
1.	<u> / / </u>	<u> ✓ </u>	Jody AKANA
2.	<u>12/4/17</u>	<u> ✓ Molly Anderson</u>	Molly ANDERSON
3.	<u> / / </u>	<u> ✓ </u>	Bartley K. ANDRE
4.	<u> / / </u>	<u> ✓ </u>	Shota AOYAGI



	Date:	Signature of Inventor:
5.	__ / __ / __	✓ _____
6.	__ / __ / __	✓ _____
7.	__ / __ / __	✓ _____
8.	__ / __ / __	✓ _____
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18.	__ / __ / __	✓ _____
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20.	__ / __ / __	✓ _____
21.	__ / __ / __	✓ _____
22.	__ / __ / __	✓ _____
23.	__ / __ / __	✓ _____

Name:

Anthony Michael ASHCROFT

Marine C. BATAILLE

Jeremy BATAILLOU

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1.	1/1	✓	Jody AKANA
2.	1/1	✓	Molly ANDERSON
3.	1/5/18	✓	Bartley K. ANDRE
4.	1/1	✓	Shota AOYAGI



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5.	__ / __ / __	✓ _____	Anthony Michael ASHCROFT
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3.	<u> / / </u>	<u> ✓ </u>	Bartley K. ANDRE
4.	<u>1.5.18</u>	<u> [Signature] </u>	Shota AOYAGI

	Date:	Signature of Inventor:
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Richard P. HOWARTH

Jonathan P. IVE

Julian JAEDF

Duncan Robert KERR

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Benjamin Andrew SHAFFER

Mikael SILVANTO

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Clement TISSANDIER

Eugene Antony WHANG

Rico ZÖRKENDÖRFER



Sterne, Kessler, Goldstein & Fox P.L.L.C.
Appl. No. 29/615,344
Atty. Docket No. 3607.1960000(P32380US4)

ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by each of the undersigned inventors: Jody AKANA, Molly ANDERSON, Bartley K. ANDRE, Shota AOYAGI, Anthony Michael ASHCROFT, Marine C. BATAILLE, Jeremy BATAILLOU, Daniele DE IULIIS, Markus DIEBEL, M. Evans HANKEY, Julian HOENIG, Richard P. HOWARTH, Jonathan P. IVE, Julian JAEDE, Duncan Robert KERR, Peter RUSSELL-CLARKE, Benjamin Andrew SHAFFER, Mikael SILVANTO, Christopher J. STRINGER, Joe Sung Ho TAN, Clement TISSANDIER, Eugene Antony WHANG and Rico ZÖRKENDÖRFER, the undersigned hereby sell and assign to Apple Inc., a corporation formed under the laws of the State of California, whose mailing address is 1 Infinite Loop, Cupertino, CA 95014 (hereafter referred to as the Assignee), his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages, for the United States of America (as defined in 35 U.S.C. § 100) and throughout the world,

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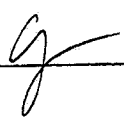
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1.	____/____/____	✓ _____	Jody AKANA
2.	____/____/____	✓ _____	Molly ANDERSON
3.	____/____/____	✓ _____	Bartley K. ANDRE
4.	____/____/____	✓ _____	Shota AOYAGI

	Date:	Signature of Inventor:
5.	12/06/17	✓ 
6.	/ /	✓
7.	/ /	✓
8.	/ /	✓
9.	/ /	✓
10.	/ /	✓
11.	/ /	✓
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4.	__ / __ / __	✓ _____	Shota AOYAGI

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2.	<u> / / </u>	<u> ✓ </u>	Molly ANDERSON
3.	<u> / / </u>	<u> ✓ </u>	Bartley K. ANDRE
4.	<u> / / </u>	<u> ✓ </u>	Shota AOYAGI

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5.	<u> / / </u>	<u>✓</u>	Anthony Michael ASHCROFT
6.	<u> / / </u>	<u>✓</u>	Marine C. BATAILLE
7.	<u>12/15/17</u>	<u>✓ [Signature]</u>	Jeremy BATAILLOU
8.	<u> / / </u>	<u>✓</u>	Danicle DE IULIIS
9.	<u> / / </u>	<u>✓</u>	Markus DIEBEL
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2.	____/____/____	✓ _____	Molly ANDERSON
3.	____/____/____	✓ _____	Bartley K. ANDRE
4.	____/____/____	✓ _____	Shota AOYAGI

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5.	__ / __ / __	✓ _____	Anthony Michael ASHCROFT
6.	__ / __ / __	✓ _____	Marine C. BATAILLE
7.	__ / __ / __	✓ _____	Jeremy BATAILLOU
8.	12.4.17	✓ <i>[Signature]</i>	Daniele DE IULIIS
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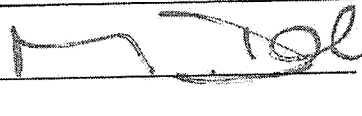
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9.	2.9.17	✓ 
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For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by each of the undersigned inventors: Jody AKANA, Molly ANDERSON, Bartley K. ANDRE, Shota AOYAGI, Anthony Michael ASHCROFT, Marine C. BATAILLE, Jeremy BATAILLOU, Daniele DE IULIIS, Markus DIEBEL, M. Evans HANKEY, Julian HOENIG, Richard P. HOWARTH, Jonathan P. IVE, Julian JAEDE, Duncan Robert KERR, Peter RUSSELL-CLARKE, Benjamin Andrew SHAFFER, Mikael SILVANTO, Christopher J. STRINGER, Joe Sung Ho TAN, Clement TISSANDIER, Eugene Antony WHANG and Rico ZÖRKENDÖRFER, the undersigned hereby sell and assign to Apple Inc., a corporation formed under the laws of the State of California, whose mailing address is 1 Infinite Loop, Cupertino, CA 95014 (hereafter referred to as the Assignee), his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages, for the United States of America (as defined in 35 U.S.C. § 100) and throughout the world,

(a) in the invention(s) known as **ELECTRONIC DEVICE** for which an application(s) for patent in the United States of America has been executed by the undersigned and has a filing date or a 371(c) date of August 28, 2017 (also known as United States Application No. 29/615,344), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

(b) in any and all application(s) that claim the benefit of the patent application listed above in part (a), including non-provisional applications, continuing (continuation, divisional, or continuation-in-part) applications, reissues, extensions, renewals and reexaminations of the patent application or Letters Patent therefor listed above in part (a), to the full extent of the term or terms for which Letters Patents issue, and

(c) in any and all invention(s) described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

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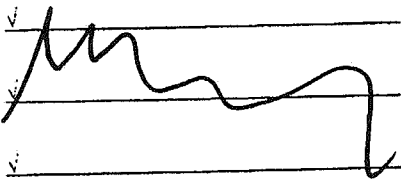
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IN WITNESS WHEREOF, executed by the undersigned inventors on the dates opposite the undersigned names.

	Date:	Signature of Inventor:	Name:
1.	<u> / / </u>	<u> ✓ </u>	Jody AKANA
2.	<u> / / </u>	<u> ✓ </u>	Molly ANDERSON
3.	<u> / / </u>	<u> ✓ </u>	Bartley K. ANDRE
4.	<u> / / </u>	<u> ✓ </u>	Shota AOYAGI

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5.	___/___/___	✓ _____
6.	___/___/___	✓ _____
7.	___/___/___	✓ _____
8.	___/___/___	✓ _____
9.	___/___/___	✓ _____
10.	1/19/18	✓ 
11.	___/___/___	✓ _____
12.	___/___/___	✓ _____
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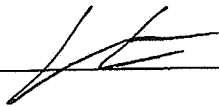
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4.	<u> / / </u>	<u> ✓ </u>	Shota AOYAGI



Sterne, Kessler, Goldstein & Fox P.L.L.C.
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7.	___/___/___	✓ _____
8.	___/___/___	✓ _____
9.	___/___/___	✓ _____
10.	___/___/___	✓ _____
11.	12/5/17	✓ 
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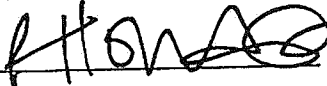
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4.	<u> / / </u>	<u> ✓ </u>	Shota AOYAGI

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1.	____/____/____	_____ j	Jody AKANA
2.	____/____/____	_____ j	Molly ANDERSON
3.	____/____/____	_____ j	Bartley K. ANDRE
4.	____/____/____	_____ j	Shota AOYAGI

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5.	<u> / / </u>	<u> ✓ </u>
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9.	<u> / / </u>	<u> ✓ </u>
10.	<u> / / </u>	<u> ✓ </u>
11.	<u> / / </u>	<u> ✓ </u>
12.	<u> / / </u>	<u> ✓ </u>
13.	<u>1.5.18</u>	<u> ✓ </u>
14.	<u> / / </u>	<u> ✓ </u>
15.	<u> / / </u>	<u> ✓ </u>
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13.	___/___/___	✓ _____
14.	12/04/2012	✓ <i>Julian / [Signature]</i>
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16.	___/___/___	✓ _____
17.	___/___/___	✓ _____
18.	___/___/___	✓ _____
19.	___/___/___	✓ _____
20.	___/___/___	✓ _____
21.	___/___/___	✓ _____
22.	___/___/___	✓ _____
23.	___/___/___	✓ _____

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Sterne, Kessler, Goldstein & Fox P.L.L.C.
Appl. No. 29/615,344
Atty. Docket No. 3607.1960000(P32380US4)

ASSIGNMENT

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1.	____/____/____	✓_____	Jody AKANA
2.	____/____/____	✓_____	Molly ANDERSON
3.	____/____/____	✓_____	Bartley K. ANDRE
4.	____/____/____	✓_____	Shota AOYAGI

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13.	<u> / / </u>	<u>✓</u>
14.	<u> / / </u>	<u>✓</u>
15.	<u>12/6/17</u>	<u>✓ <i>Wen</i></u>
16.	<u> / / </u>	<u>✓</u>
17.	<u> / / </u>	<u>✓</u>
18.	<u> / / </u>	<u>✓</u>
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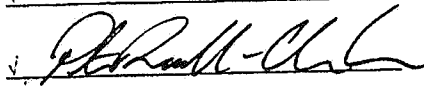
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4.	<u> / / </u>	<u> ✓ </u>	Shota AOYAGI

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15.	<u> / / </u>	<u>✓</u>
16.	<u>12-15-17</u>	<u>✓ </u>
17.	<u> / / </u>	<u>✓</u>
18.	<u> / / </u>	<u>✓</u>
19.	<u> / / </u>	<u>✓</u>
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1.	<u> / / </u>	<u> ✓ </u>	Jody AKANA
2.	<u> / / </u>	<u> ✓ </u>	Molly ANDERSON
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4.	<u> / / </u>	<u> ✓ </u>	Shota AOYAGI



Sterne, Kessler, Goldstein & Fox P.L.L.C.
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5.	<u> / / </u>	<u> ✓ </u>
6.	<u> / / </u>	<u> ✓ </u>
7.	<u> / / </u>	<u> ✓ </u>
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16.	<u> / / </u>	<u> ✓ </u>
17.	<u>12/4/17</u>	<u> ✓ </u>
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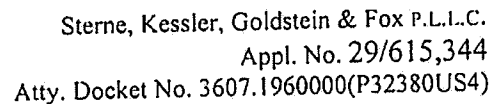
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PATENT

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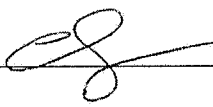
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3.	____/____/____	✓_____	Bartley K. ANDRE
4.	____/____/____	✓_____	Shota AOYAGI



Sterne, Kessler, Goldstein & Fox P.L.L.C.
Appl. No. 29/615,344
Atty. Docket No. 3607.1960000(P32380US4)

	Date:	Signature of Inventor:	Name:
5.	__ / __ / __	✓ _____	Anthony Michael ASHCROFT
6.	__ / __ / __	✓ _____	Marine C. BATAILLE
7.	__ / __ / __	✓ _____	Jeremy BATAILLOU
8.	__ / __ / __	✓ _____	Daniele DE IULIIS
9.	__ / __ / __	✓ _____	Markus DIEBEL
10.	__ / __ / __	✓ _____	M. Evans HANKEY
11.	__ / __ / __	✓ _____	Julian HOENIG
12.	__ / __ / __	✓ _____	Richard P. HOWARTH
13.	__ / __ / __	✓ _____	Jonathan P. IVE
14.	__ / __ / __	✓ _____	Julian JAEDE
15.	__ / __ / __	✓ _____	Duncan Robert KERR
16.	__ / __ / __	✓ _____	Peter RUSSELL-CLARKE
17.	__ / __ / __	✓ _____	Benjamin Andrew SHAFFER
18.	__ / __ / __	✓ _____	Mikael SILVANTO
19.	12/16/2017	✓ 	Christopher J. STRINGER
20.	__ / __ / __	✓ _____	Joe Sung Ho TAN
21.	__ / __ / __	✓ _____	Clement TISSANDIER
22.	__ / __ / __	✓ _____	Eugene Antony WHANG
23.	__ / __ / __	✓ _____	Rico ZÖRKENDÖRFER



ASSIGNMENT

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(c) in any and all invention(s) described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals and reexaminations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

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1.	____/____/____	✓ _____	Jody AKANA
2.	____/____/____	✓ _____	Molly ANDERSON
3.	____/____/____	✓ _____	Bartley K. ANDRE
4.	____/____/____	✓ _____	Shota AOYAGI

	Date:	Signature of Inventor:
5.	<u> / / </u>	<u> ✓ </u>
6.	<u> / / </u>	<u> ✓ </u>
7.	<u> / / </u>	<u> ✓ </u>
8.	<u> / / </u>	<u> ✓ </u>
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13.	<u> / / </u>	<u> ✓ </u>
14.	<u> / / </u>	<u> ✓ </u>
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16.	<u> / / </u>	<u> ✓ </u>
17.	<u> / / </u>	<u> ✓ </u>
18.	<u> / / </u>	<u> ✓ </u>
19.	<u> / / </u>	<u> ✓ </u>
20.	<u>12.4.17</u>	<u></u>
21.	<u> / / </u>	<u> ✓ </u>
22.	<u> / / </u>	<u> ✓ </u>
23.	<u> / / </u>	<u> ✓ </u>

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	Date:	Signature of Inventor:	Name:
1.	<u> / / </u>	<u> j </u>	Jody AKANA
2.	<u> / / </u>	<u> j </u>	Molly ANDERSON
3.	<u> / / </u>	<u> j </u>	Bartley K. ANDRE
4.	<u> / / </u>	<u> j </u>	Shota AOYAGI

	Date:	Signature of Inventor:	Name:
5.	<u> / / </u>	<u>✓</u>	Anthony Michael ASHCROFT
6.	<u> / / </u>	<u>✓</u>	Marine C. BATAILLE
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19.	<u> / / </u>	<u>✓</u>	Christopher J. STRINGER
20.	<u> / / </u>	<u>✓</u>	Joe Sung Ho TAN
21.	<u>12,04,17</u>	<u>✓</u> 	Clement TISSANDIER
22.	<u> / / </u>	<u>✓</u>	Eugene Antony WHANG
23.	<u> / / </u>	<u>✓</u>	Rico ZÖRKENDÖRFER



Sterne, Kessler, Goldstein & Fox P.L.L.C.
Appl. No. 29/615,344
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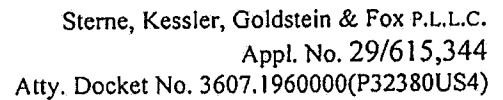
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	Date:	Signature of Inventor:	Name:
1.	____/____/____	✓ _____	Jody AKANA
2.	____/____/____	✓ _____	Molly ANDERSON
3.	____/____/____	✓ _____	Bartley K. ANDRE
4.	____/____/____	✓ _____	Shota AOYAGI



Name:

Anthony Michael ASHCROFT

Marine C. BATAILLE

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5.	<u> / / </u>	<u> ✓ </u>
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22.	<u> / / </u>	<u> ✓ </u>
23.	<u>12A/74</u>	<u> ✓ </u>

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