PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5660463

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JODY AKANA	06/18/2019
MOLLY ANDERSON	06/25/2019
BARTLEY K. ANDRE	07/11/2019
SHOTA AOYAGI	06/29/2019
ANTHONY MICHAEL ASHCROFT	06/18/2019
MARINE C. BATAILLE	06/18/2019
JEREMY BATAILLOU	06/17/2019
DANIELE DE IULIIS	06/27/2019
MARKUS DIEBEL	06/24/2019
M. EVANS HANKEY	06/29/2019
JULIAN HOENIG	07/27/2019
RICHARD P. HOWARTH	06/25/2019
JONATHAN P. IVE	07/22/2019
JULIAN JAEDE	06/18/2019
DUNCAN ROBERT KERR	06/19/2019
PETER RUSSELL-CLARKE	06/18/2019
BENJAMIN ANDREW SHAFFER	06/17/2019
JOE TAN	06/26/2019
CLEMENT TISSANDIER	06/24/2019
EUGENE ANTONY WHANG	06/26/2019

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:	29616893

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@sternekessler.com, rbadman@sternekessler.com

Correspondent Name: STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Address Line 1: 1100 NEW YORK AVENUE, N.W.

Address Line 4: WASHINGTON, D.C. 20005

ATTORNEY DOCKET NUMBER:	3607.1800000(P36412US1)
NAME OF SUBMITTER:	TRACY-GENE G. DURKIN
SIGNATURE:	/Tracy Durkin/ #32,831
DATE SIGNED:	08/08/2019

Total Attachments: 40

source=3607.1800000 Executed Assignment#page1.tif source=3607.1800000 Executed Assignment#page2.tif source=3607.1800000 Executed Assignment#page3.tif source=3607.1800000 Executed Assignment#page4.tif source=3607.1800000 Executed Assignment#page5.tif source=3607.1800000 Executed Assignment#page6.tif source=3607.1800000 Executed Assignment#page7.tif source=3607.1800000 Executed Assignment#page8.tif source=3607.1800000 Executed Assignment#page9.tif source=3607.1800000 Executed Assignment#page10.tif source=3607.1800000 Executed Assignment#page11.tif source=3607.1800000 Executed Assignment#page12.tif source=3607.1800000 Executed Assignment#page13.tif source=3607.1800000 Executed Assignment#page14.tif source=3607.1800000 Executed Assignment#page15.tif source=3607.1800000 Executed Assignment#page16.tif source=3607.1800000 Executed Assignment#page17.tif source=3607.1800000 Executed Assignment#page18.tif source=3607.1800000 Executed Assignment#page19.tif source=3607.1800000 Executed Assignment#page20.tif source=3607.1800000 Executed Assignment#page21.tif source=3607.1800000 Executed Assignment#page22.tif source=3607.1800000 Executed Assignment#page23.tif source=3607.1800000 Executed Assignment#page24.tif source=3607.1800000 Executed Assignment#page25.tif source=3607.1800000 Executed Assignment#page26.tif source=3607.1800000 Executed Assignment#page27.tif source=3607.1800000 Executed Assignment#page28.tif source=3607.1800000 Executed Assignment#page29.tif source=3607.1800000 Executed Assignment#page30.tif source=3607.1800000 Executed Assignment#page31.tif source=3607.1800000 Executed Assignment#page32.tif

source=3607.1800000 Executed Assignment#page33.tif	
source=3607.1800000 Executed Assignment#page34.tif	
source=3607.1800000 Executed Assignment#page35.tif	
source=3607.1800000 Executed Assignment#page36.tif	
source=3607.1800000 Executed Assignment#page37.tif	
source=3607.1800000 Executed Assignment#page38.tif	
source=3607.1800000 Executed Assignment#page39.tif	
source=3607.1800000 Executed Assignment#page40.tif	



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 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 One Apple Park Way, 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 WITH GRAPHICAL USER INTERFACE 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 September 10, 2017 (also known as United States Application No. 29/616,893), 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.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

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.	6/18/19	John Man	Jody AKANA
2.			Molly ANDERSON
3.		<u> </u>	Bartley K. ANDRE
4.		<u>v</u>	Shota AOYAGI
5.		<u>v</u>	Anthony Michael ASHCROFT
6.		√	Marine C. BATAILLE
7.		<u>V</u>	Jeremy BATAILLOU
8.		V	Daniele DE IULIIS
9.		<u>/</u>	Markus DIEBEL
10.		<u>/</u>	M. Evans HANKEY
11.		V	Julian HOENIG
12.		<u>/</u>	Richard P. HOWARTH
13.		V	Jonathan P. IVE
14.		N	Julian JAEDE
15.		<u>vi</u>	Duncan Robert KERR
16.		<u> </u>	Peter RUSSELL-CLARKE
17.		vi	Benjamin Andrew SHAFFER
18.		vi	Mikael SILVANTO
19.		<u>√</u>	Christopher J. STRINGER
20.		<u>√</u>	Joe TAN
21.		<u>v</u>	Clement TISSANDIER
22.		<u>v</u>	Eugene Antony WHANG
23.		<u> </u>	Rico ZÖRKENDÖRFER



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 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 One Apple Park Way, 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 WITH GRAPHICAL USER INTERFACE 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 September 10, 2017 (also known as United States Application No. 29/616,893), 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.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

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.



	Date:	Signature of Inventor:	Name:
1.		V	Jody AKANA
2.	412519	Meum	Molly ANDERSON
3.		v.	Bartley K. ANDRE
4.		\frac{1}{2}	Shota AOYAGI
5.		y V	Anthony Michael ASHCROFT
6.		√	Marine C. BATAILLE
7.		Ń	Jeremy BATAILLOU
8.		Ý	Daniele DE IULIIS
9.		٧ <u> </u>	Markus DIEBEL
10.		√	M. Evans HANKEY
11.		√	Julian HOENIG
12.		<u>/</u>	Richard P. HOWARTH
13.		Ŋ	Jonathan P. IVE
14.		<u>v</u>	Julian JAEDE
15.		<u>V</u>	Duncan Robert KERR
16.		<u>v</u> i	Peter RUSSELL-CLARKE
17.		<u>√</u>	Benjamin Andrew SHAFFER
18.		<u>√</u>	Mikael SILVANTO
19.		√	Christopher J. STRINGER
20.		<u>v</u>	Joe TAN
21.		√	Clement TISSANDIER
22.		√	Eugene Antony WHANG
23.		<u>√</u>	Rico ZÖRKENDÖRFER



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 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 One Apple Park Way, 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 WITH GRAPHICAL USER INTERFACE 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 September 10, 2017 (also known as United States Application No. 29/616,893), 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.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

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.



	Date:	Signature of Inventor:	Name:
1.		v. A	Jody AKANA
2.		\sim \sim \sim \sim	Molly ANDERSON
3.	7/11/19		Bartley K. ANDRE
4.		<u>\</u>	Shota AOYAGI
5.		<u> </u>	Anthony Michael ASHCROFT
6.		<u>√</u>	Marine C. BATAILLE
7.		<u>√</u>	Jeremy BATAILLOU
8.		<u> </u>	Daniele DE IULIIS
9.		ý .	Markus DIEBEL
10.		<u> </u>	M. Evans HANKEY
11.		√	Julian HOENIG
12.		<u>√</u>	Richard P. HOWARTH
13.		<u>v</u>	Jonathan P. IVE
14.		<u>√</u>	Julian JAEDE
15.		<u>v</u>	Duncan Robert KERR
16.		<u>v</u>	Peter RUSSELL-CLARKE
17.		<u>v</u>	Benjamin Andrew SHAFFER
18.		<u> </u>	Mikael SILVANTO
19.		<u> </u>	Christopher J. STRINGER
20.	_/_/_	<u>√</u>	Joe TAN
21.		<u> </u>	Clement TISSANDIER
22.		<u> </u>	Eugene Antony WHANG
23.		√	Rico ZÖRKENDÖRFER



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 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 One Apple Park Way, 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 WITH GRAPHICAL USER INTERFACE 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 September 10, 2017 (also known as United States Application No. 29/616,893), 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.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

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.		<u> v</u>	Jody AKANA
2.		<u>V</u>	Molly ANDERSON
3.		<u> </u>	Bartley K. ANDRE
4.	6 12/19	青柳 新木	Shota AOYAGI
5.		<u>v</u>	Anthony Michael ASHCROFT
6.		<u>√</u>	Marine C. BATAILLE
7.	//	<u>√</u>	Jeremy BATAILLOU
8.		<u>√</u>	Daniele DE IULIIS
9.		<u>v</u>	Markus DIEBEL
10.		<u>√</u>	M. Evans HANKEY
11.		<u>√</u>	Julian HOENIG
12.		<u>√</u>	Richard P. HOWARTH
13.		<u>√</u>	Jonathan P. IVE
14.	_ / _ /	<u>√</u>	Julian JAEDE
15.		<u> </u>	Duncan Robert KERR
16.		<u>√</u>	Peter RUSSELL-CLARKE
17.		<u>√</u>	Benjamin Andrew SHAFFER
18.		<u>√</u>	Mikael SILVANTO
19.		<u>√</u>	Christopher J. STRINGER
20.		<u>√</u>	Joe TAN
21.		<u>v</u>	Clement TISSANDIER
22.		<u>'</u>	Eugene Antony WHANG
23.		<u>√</u>	Rico ZÖRKENDÖRFER



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 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 One Apple Park Way, 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 WITH GRAPHICAL USER INTERFACE 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 September 10, 2017 (also known as United States Application No. 29/616,893), 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.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

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.	<u> </u>	Ņ	Jody AKANA
2.		<u>v</u>	Molly ANDERSON
3.		٧	Bartley K. ANDRE
4.		V.	Shota AOYAGI
5.	06 18,14	v d	Anthony Michael ASHCROFT
6.		<u> </u>	Marine C. BATAILLE
7.	/	v'	Jeremy BATAILLOU
8.		<u>√</u>	Daniele DE IULIIS
9.		<u>v</u>	Markus DIEBEL
10.		<u> </u>	M. Evans HANKEY
11.		<u> </u>	Julian HOENIG
12.	/_/_	<u>√</u>	Richard P. HOWARTH
13.		<u>√</u>	Jonathan P. IVE
14.		<u>√</u>	Julian JAEDE
15.		<u>√</u>	Duncan Robert KERR
16.		<u>√</u>	Peter RUSSELL-CLARKE
17.		<u> </u>	Benjamin Andrew SHAFFER
18.		<u> </u>	Mikael SILVANTO
19.		<u> </u>	Christopher J. STRINGER
20.		<u>√</u>	Joe TAN
21.		<u>√</u>	Clement TISSANDIER
22.		<u>√</u>	Eugene Antony WHANG
23.		<u>√</u>	Rico ZÖRKENDÖRFER



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 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 One Apple Park Way, 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 WITH GRAPHICAL USER INTERFACE 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 September 10, 2017 (also known as United States Application No. 29/616,893), 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.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

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.



	Date:	Signature of Inventor:	Name:
1.		<u>v</u>	Jody AKANA
2.		<u>√</u>	Molly ANDERSON
3.		<u>√</u>	Bartley K. ANDRE
4.		<u>\(\frac{1}{2} \) \(\frac{1}{2} \)</u>	Shota AOYAGI
5.	18/06/19	<u>√</u>	Anthony Michael ASHCROFT
6.	18/06/19	V PZ	Marine C. BATAILLE
7.		ý	Jeremy BATAILLOU
8.		<u> </u>	Daniele DE IULIIS
9.		<u>v</u>	Markus DIEBEL
10.		<u>√</u>	M. Evans HANKEY
11.		<u>√</u>	Julian HOENIG
12.		v.	Richard P. HOWARTH
13.		<u>√</u>	Jonathan P. IVE
14.		v ⁱ	Julian JAEDE
15.		V.	Duncan Robert KERR
16.		<u>√</u>	Peter RUSSELL-CLARKE
17.		V ⁱ	Benjamin Andrew SHAFFER
18.	//	<u>√</u>	Mikael SILVANTO
19.		<u>V</u>	Christopher J. STRINGER
20.		<u>√</u>	Joe TAN
21.		<u>ý</u>	Clement TISSANDIER
22.		<u></u>	Eugene Antony WHANG
23.	//	V.	Rico ZÖRKENDÖRFER



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 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 One Apple Park Way, 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 WITH GRAPHICAL USER INTERFACE 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 September 10, 2017 (also known as United States Application No. 29/616,893), 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.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

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.



	Date:	Signature of Inventor:	Name:
1.		<u>√</u>	Jody AKANA
2.		<u>√</u>	Molly ANDERSON
3.		<u>√</u>	Bartley K. ANDRE
4.		V	Shota AOYAGI
5.		<u>v</u>	Anthony Michael ASHCROFT
6.		<u>√</u>	Marine C. BATAILLE
7.	061719.	V 247	Jeremy BATAILLOU
8.		<u>V</u>	Daniele DE IULIIS
9.		V ⁱ	Markus DIEBEL
10.	_ / _ /	<u>√</u>	M. Evans HANKEY
11.		<u>√</u>	Julian HOENIG
12.		V	Richard P. HOWARTH
13.		<u>v</u> .	Jonathan P. IVE
14.		<u>v</u>	Julian JAEDE
15.		v ⁱ	Duncan Robert KERR
16.		v.i	Peter RUSSELL-CLARKE
17.		√	Benjamin Andrew SHAFFER
18.		<u>√</u>	Mikael SILVANTO
19.		<u>√</u>	Christopher J. STRINGER
20.		<u>√</u>	Joe TAN
21.		<u>y</u> .	Clement TISSANDIER
22.		<u>√</u>	Eugene Antony WHANG
23.	/	V.	Rico ZÖRKENDÖRFER



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 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 One Apple Park Way, 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 WITH GRAPHICAL USER INTERFACE 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 September 10, 2017 (also known as United States Application No. 29/616,893), 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.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

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.



	Date:	Signature of Inventor:	Name:
i.		√	Jody AKANA
2.	<u></u>	<u>vi</u>	Molly ANDERSON
3.		<u> </u>	Bartley K. ANDRE
4.		¥	Shota AOYAGI
5.		<u>V</u>	Anthony Michael ASHCROFT
6.	<u> 1 1 </u>	N.	Marine C. BATAILLE
7.		V n n n	Jeremy BATAILLOU
8.	6719	1/////////////////////////////////////	Daniele DE IULIIS
9.			Markus DIEBEL
10.		<u> </u>	M. Evans HANKEY
11.		Ņ.	Julian HOENIG
12.		<u> </u>	Richard P. HOWARTH
13.	//	Ä	Jonathan P. IVE
14.		X	Julian JAEDE
15.		<u> </u>	Duncan Robert KERR
16.	<u></u>	Ŋ	Peter RUSSELL-CLARKE
17.		¥	Benjamin Andrew SHAFFER
18.		1	Mikael SILVANTO
19.		<u>X</u>	Christopher J. STRINGER
20.		<u> </u>	Joe TAN
21.		√i:	Clement TISSANDIER
22.		<u> </u>	Eugene Antony WHANG
23.	1.1.		Rico ZÖRKENDŐRFER



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 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 One Apple Park Way, 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 WITH GRAPHICAL USER INTERFACE** 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 September 10, 2017 (also known as United States Application No. 29/616,893), 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.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

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.		<u>v</u>	Jody AKANA
2.		√.	Molly ANDERSON
3.		<u>√</u>	Bartley K. ANDRE
4.		<u>√</u>	Shota AOYAGI
5.		√	Anthony Michael ASHCROFT
6.		v'	Marine C. BATAILLE
7.		<u>V</u>	Jeremy BATAILLOU
8.		V	Daniele DE IULIIS
9. (062419	of the	Markus DIEBEL
10.		<u>, , , , , , , , , , , , , , , , , , , </u>	M. Evans HANKEY
11.		<u>√</u>	Julian HOENIG
12.		<u>√</u>	Richard P. HOWARTH
13.		<u>√</u>	Jonathan P. IVE
14.		<u>√</u>	Julian JAEDE
15.		<u>v</u>	Duncan Robert KERR
16.		<u>v</u> i	Peter RUSSELL-CLARKE
17.		V	Benjamin Andrew SHAFFER
18.		<u>√</u>	Mikael SILVANTO
19.		V.	Christopher J. STRINGER
20.		<u>V</u>	Joe TAN
21.		V.	Clement TISSANDIER
22.		√	Eugene Antony WHANG
23.		<u>√</u>	Rico ZÖRKENDÖRFER



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 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 One Apple Park Way, 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 WITH GRAPHICAL USER INTERFACE 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 September 10, 2017 (also known as United States Application No. 29/616,893), 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.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

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.		V ⁱ	Jody AKANA
2.		V	Molly ANDERSON
3.		√	Bartley K. ANDRE
4.		<u>√</u>	Shota AOYAGI
5.		√	Anthony Michael ASHCROFT
6.		<u>√</u>	Marine C. BATAILLE
7.		<u> </u>	Jeremy BATAILLOU
8.	1 1	<u>√</u>	Daniele DE IULIIS
9.		v l	Markus DIEBEL
10.	6 129,19	V V	M. Evans HANKEY
11.		<u> </u>	Julian HOENIG
12.		<u>v</u>	Richard P. HOWARTH
13.		<u>N</u>	Jonathan P. IVE
14.		<u>V</u>	Julian JAEDE
15.		<u>V</u>	Duncan Robert KERR
16.		<u>V</u>	Peter RUSSELL-CLARKE
17.		<u>v</u>	Benjamin Andrew SHAFFER
18.		<u>√</u>	Mikael SILVANTO
19.		<u>√</u>	Christopher J. STRINGER
20.		<u> V</u>	Joe TAN
21.		<u>√</u>	Clement TISSANDIER
22.		<u>v</u>	Eugene Antony WHANG
23.		<u>v</u>	Rico ZÖRKENDÖRFER



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 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 One Apple Park Way, 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 WITH GRAPHICAL USER INTERFACE 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 September 10, 2017 (also known as United States Application No. 29/616,893), 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.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

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.	<u> </u>	¥.	Jody AKANA
2.		<u>i</u>	Molly ANDERSON
3.		Ý	Bartley K. ANDRE
4.		1	Shota AOYAGI
5.		4	Anthony Michael ASHCROFT
6.	<u></u>	<u> </u>	Marine C. BATAILLE
7.		<u> </u>	Jeremy BATAILLOU
8.		Ŋ.	Daniele DE IULIIS
9.		∜	Markus DIEBEL
10.		4	M. Evans HANKEY
11.	07/27/19	ht	Julian HOENIG
12.	<u></u>	<u>A</u>	Richard P. HOWARTH
13.		√	Jonathan P. IVE
14.	<u></u>	ý.	Julian JAEDE
15.	<u> </u>	<u> </u>	Duncan Robert KERR
16.		<u> </u>	Peter RUSSELL-CLARKE
17.		<u>√</u>	Benjamin Andrew SHAFFER
18.		∜	Mikael SILVANTO
19.		¥	Christopher J. STRINGER
20.		<u> </u>	Joe TAN
21.		Ž.	Clement TISSANDIER
22.	<u> </u>	<u>j</u>	Eugene Antony WHANG
23.	1 1	ş ⁱ	Rico ZÖRKENDÖRFER



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 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 One Apple Park Way, 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 WITH GRAPHICAL USER INTERFACE 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 September 10, 2017 (also known as United States Application No. 29/616,893), 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.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

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.		<u>√</u>	Jody AKANA
2.		<u> </u>	Molly ANDERSON
3.		<u>V</u>	Bartley K. ANDRE
4.		V	Shota AOYAGI
5.		N. Company	Anthony Michael ASHCROFT
6.		<u>v</u>	Marine C. BATAILLE
7.		<u>v</u>	Jeremy BATAILLOU
8.		<u>√</u>	Daniele DE IULIIS
9.		<u>√</u>	Markus DIEBEL
10.	_ / _ / _	<u>√</u>	M. Evans HANKEY
11.		٧	Julian HOENIG
12.	6/25/19	PHENDO	Richard P. HOWARTH
13.		<u>V</u>	Jonathan P. IVE
14.		<u>√</u>	Julian JAEDE
15.		<u>v</u>	Duncan Robert KERR
16.	_/_/_	ý	Peter RUSSELL-CLARKE
17.		<u>V</u>	Benjamin Andrew SHAFFER
18.		<u>v</u>	Mikael SILVANTO
19.		<u>ý</u>	Christopher J. STRINGER
20.		<u>√</u>	Joe TAN
21.		ý .	Clement TISSANDIER
22.		<u>√</u>	Eugene Antony WHANG
23.		v'	Rico ZÖRKENDÖRFER



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 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 One Apple Park Way, 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 WITH GRAPHICAL USER INTERFACE 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 September 10, 2017 (also known as United States Application No. 29/616,893), 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.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

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.



	Date:	Signature of Inventor:	Name:
1.		<u>v</u>	Jody AKANA
2.		<u>√</u>	Molly ANDERSON
3.		<u>√</u>	Bartley K. ANDRE
4.		<u>√</u>	Shota AOYAGI
5.		v.	Anthony Michael ASHCROFT
6.		<u>v</u>	Marine C. BATAILLE
7.		<u>v</u>	Jeremy BATAILLOU
8.		<u>√</u>	Daniele DE IULIIS
9.		<u>√</u>	Markus DIEBEL
10.		<u>√</u>	M. Evans HANKEY
11.		V	Julian HOENIG
12.		<u> </u>	Richard P. HOWARTH
13.	72219	٠, ٠.	Jonathan P. IVE
14.		<u>v</u>	Julian JAEDE
15.		<u>v</u>	Duncan Robert KERR
16.		<u>v</u>	Peter RUSSELL-CLARKE
17.		<u>y</u>	Benjamin Andrew SHAFFER
18.		<u>v</u>	Mikael SILVANTO
19.		<u>v</u>	Christopher J. STRINGER
20.		Ŋ.	Joe TAN
21.		<u>v</u>	Clement TISSANDIER
22.		<u>v</u>	Eugene Antony WHANG
23.		<u>v</u> .	Rico ZÖRKENDÖRFER



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 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 One Apple Park Way, 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 WITH GRAPHICAL USER INTERFACE 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 September 10, 2017 (also known as United States Application No. 29/616,893), 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.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

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.



	Date:	Signature of Inventor:	Name:
1.		<u>, i</u>	Jody AKANA
2.		<u>√</u>	Molly ANDERSON
3.		<u>, </u>	Bartley K. ANDRE
4.		<u>√</u>	Shota AOYAGI
5.		<u>√</u>	Anthony Michael ASHCROFT
6.		<u> </u>	Marine C. BATAILLE
7.	_ / _ /	<u>√</u>	Jeremy BATAILLOU
8.		<u>√</u>	Daniele DE IULIIS
9.		<u> </u>	Markus DIEBEL
10.		<u>√</u>	M. Evans HANKEY
11.		<u>, i</u>	Julian HOENIG
12.		<u>'</u>	Richard P. HOWARTH
13.			Jonathan P. IVE
14.	06 18/19	Min/M	Julian JAEDE
15.		<u> </u>	Duncan Robert KERR
16.		<u>V</u>	Peter RUSSELL-CLARKE
17.		<u>√</u>	Benjamin Andrew SHAFFER
18.		<u> </u>	Mikael SILVANTO
19.		<u>v</u>	Christopher J. STRINGER
20.		<u> </u>	Joe TAN
21.		<u>\(\lambda \) \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ </u>	Clement TISSANDIER
22.		<u>V</u>	Eugene Antony WHANG
23.		<u>v</u>	Rico ZÖRKENDÖRFER



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 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 One Apple Park Way, 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 WITH GRAPHICAL USER INTERFACE 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 September 10, 2017 (also known as United States Application No. 29/616,893), 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.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

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.			Jody AKANA
2.			Molly ANDERSON
3.	Baking ng Transig II Baking AsirA		Bartley K. ANDRE
4.			Shota AOYAGI
5.			Anthony Michael ASHCROFT
6.	in y y y in the second of the		_ Marine C. BATAILLE
7,			Jeremy BATAILLOU
8.			_ Daniele DE IULIIS
9.	<u></u>		_ Markus DIEBEL
10.	$\frac{1}{1} \frac{\int_{-\infty}^{\infty} \int_{-\infty}^{\infty} dx}{1} dx$		M. Evans HANKEY
11.			_ Julian HOENIG
12.	<u> </u>		Richard P. HOWARTH
13.	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		_ Jonathan P. IVE
14.			_ Julian JAEDE
15.	06/19/2019	<u> </u>	_ Duncan Robert KERR
16.			_ Peter RUSSELL-CLARKE
17.			Benjamin Andrew SHAFFER
18.			_ Mikael SILVANTO
19.	andre de la companya de la companya La companya de la co		_ Christopher J. STRINGER
20.			_ Joe TAN
21.	2 <u>-21-1-1</u> -0		_ Clement TISSANDIER
22.			_ Eugene Antony WHANG
23.			_ Rico ZÖRKENDÖRFER



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 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 One Apple Park Way, 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 WITH GRAPHICAL USER INTERFACE 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 September 10, 2017 (also known as United States Application No. 29/616,893), 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.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

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.



	Date:	Signature of Inventor:	Name:
1.		<u> </u>	Jody AKANA
2.		<u> </u>	Molly ANDERSON
3.		<u>√</u>	Bartley K. ANDRE
4.		<u>√</u>	Shota AOYAGI
5.		<u>√</u>	Anthony Michael ASHCROFT
6.		<u>√</u>	Marine C. BATAILLE
7.		<u>v</u>	Jeremy BATAILLOU
8.		<u>√</u>	Daniele DE IULIIS
9.	_ / _ /	<u>√</u>	Markus DIEBEL
10.		<u> </u>	M. Evans HANKEY
11.		<u>√</u>	Julian HOENIG
12.		<u>√</u>	Richard P. HOWARTH
13.		<u>v</u>	Jonathan P. IVE
14.		<u> </u>	Julian JAEDE
15.		VOIII	Duncan Robert KERR
16.	6118119	Hokall al	Peter RUSSELL-CLARKE
17.		<u> </u>	Benjamin Andrew SHAFFER
18.		<u>v</u>	Mikael SILVANTO
19.		<u>√</u>	Christopher J. STRINGER
20.		ý	Joe TAN
21.		<u>V</u>	Clement TISSANDIER
22.		<u>√</u>	Eugene Antony WHANG
23.		<u>√</u>	Rico ZÖRKENDÖRFER



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 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 One Apple Park Way, 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 WITH GRAPHICAL USER INTERFACE 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 September 10, 2017 (also known as United States Application No. 29/616,893), 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.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

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.



	Date:	Signature of Inventor:	Name:
1.		<u>√</u>	Jody AKANA
2.		<u> </u>	Molly ANDERSON
3.		<u> </u>	Bartley K. ANDRE
4.		<u>v</u>	Shota AOYAGI
5.		<u>√</u>	Anthony Michael ASHCROFT
6.		<u>√</u>	Marine C. BATAILLE
7.		<u>v</u>	Jeremy BATAILLOU
8.		<u>v</u>	Daniele DE IULIIS
9.		<u>v</u>	Markus DIEBEL
10.		<u>√</u>	M. Evans HANKEY
11.		<u>√</u>	Julian HOENIG
12.		√	Richard P. HOWARTH
13.		√ <u> </u>	Jonathan P. IVE
14.		<u>v</u>	Julian JAEDE
15.		<u>v</u>	Duncan Robert KERR
16.		<u> </u>	Peter RUSSELL-CLARKE
17.	617/17	y Vo	Benjamin Andrew SHAFFER
18.		<u> </u>	Mikael SILVANTO
19.		<u>√</u>	Christopher J. STRINGER
20.		<u>v</u>	Joe TAN
21.		<u>v</u>	Clement TISSANDIER
22.		<u>√</u>	Eugene Antony WHANG
23.		₹	Rico ZÖRKENDÖRFER



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 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 One Apple Park Way, 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 WITH GRAPHICAL USER INTERFACE 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 September 10, 2017 (also known as United States Application No. 29/616,893), 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.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

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.



	Date:	Signature of Inventor:	Name:
1.		<u>v</u>	Jody AKANA
2.		<u>√</u>	Molly ANDERSON
3.		V	Bartley K. ANDRE
4.		<u>√</u>	Shota AOYAGI
5.		V	Anthony Michael ASHCROFT
6.		N	Marine C. BATAILLE
7.		<u>V</u>	Jeremy BATAILLOU
8.		<u>V</u>	Daniele DE IULIIS
9.		<u>V</u>	Markus DIEBEL
10.		<u>√</u>	M. Evans HANKEY
11.		<u> </u>	Julian HOENIG
12.		<u>V</u>	Richard P. HOWARTH
13.		<u>\frac{1}{2}</u>	Jonathan P. IVE
14.		<u>√</u>	Julian JAEDE
15.		<u>V</u>	Duncan Robert KERR
16.		<u>V</u>	Peter RUSSELL-CLARKE
17.		<u>√</u>	Benjamin Andrew SHAFFER
18.		<u>v</u> '	Mikael SILVANTO
19.	_ / /	<u>\</u>	Christopher J. STRINGER
20.	€ 12419	· G	Joe TAN
21.		<u>v</u>	Clement TISSANDIER
22.		<u>v</u>	Eugene Antony WHANG
23.		<u>v</u>	Rico ZÖRKENDÖRFER



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 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 One Apple Park Way, 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 WITH GRAPHICAL USER INTERFACE 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 September 10, 2017 (also known as United States Application No. 29/616,893), 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.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

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.		<u>v</u> i	Jody AKANA
2.		<u>√</u>	Molly ANDERSON
3.		У	Bartley K. ANDRE
4.		v <u>'</u>	Shota AOYAGI
5.		<u>v</u>	Anthony Michael ASHCROFT
6.		√	Marine C. BATAILLE
7.		V	Jeremy BATAILLOU
8.		<u>√</u>	Daniele DE IULIIS
9.		<u>√</u>	Markus DIEBEL
10.	_ / _ /	<u>V</u>	M. Evans HANKEY
11.		V	Julian HOENIG
12.		<u>√</u>	Richard P. HOWARTH
13.		V.	Jonathan P. IVE
14.		v.	Julian JAEDE
15.		v [']	Duncan Robert KERR
16.		<u>v</u>	Peter RUSSELL-CLARKE
17.		<u>V</u>	Benjamin Andrew SHAFFER
18.		<u> </u>	Mikael SILVANTO
19.		<u>√</u>	Christopher J. STRINGER
20.		<u> </u>	Joe TAN
21.	86 124/19	v & .	Clement TISSANDIER
22.		√	Eugene Antony WHANG
23.		<u>√</u>	Rico ZÖRKENDÖRFER



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 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 One Apple Park Way, 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 WITH GRAPHICAL USER INTERFACE 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 September 10, 2017 (also known as United States Application No. 29/616,893), 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.

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection with such application(s) as the Assignee may deem necessary or expedient.

The undersigned inventors agree to execute all papers necessary in connection with any interference or patent enforcement action (judicial or otherwise) related to the application(s) or any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue or reexamination application(s) thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or patent enforcement action.

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.			Jody AKANA
2.			Molly ANDERSON
3.	oli (1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		Bartley K. ANDRE
4.			Shota AOYAGI
5.			Anthony Michael ASHCROFT
6.			Marine C. BATAILLE
7.			Jeremy BATAILLOU
8,			Daniele DE IULIIS
9.			Markus DIEBEL
10.			M. Evans HANKEY
11.	- 1931 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 194 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 1945 - 194		Julian HOENIG
12.			Richard P. HOWARTH
13.			Jonathan P. IVE
14.			Julian JAEDE
15.			Duncan Robert KERR
16.			Peter RUSSELL-CLARKE
17.	111		Benjamin Andrew SHAFFER
18.			Mikael SILVANTO
19.			Christopher J. STRINGER
20.			Joe TAN
21.	~ <u>, </u>		Clement TISSANDIER
22.	6 26,19	· EWS	Eugene Antony WHANG
23.			Rico ZÖRKENDÖRFER

Page 2 of 2

PATENT REEL: 050013 FRAME: 0700

RECORDED: 08/08/2019