502814978 05/19/2014

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JODY AKANA	04/30/2014
BARTLEY K. ANDRE	05/01/2014
SHOTA AOYAGI	04/30/2014
JEREMY BATAILLOU	04/30/2014
LUCY E. BROWNING	04/30/2014
MIGUEL CHRISTOPHY	04/29/2014
DANIEL J. COSTER	04/30/2014
DANIELE DE IULIIS	04/30/2014
JONATHAN CORBIN DENBY	04/29/2014
RICHARD HUNG MINH DINH	04/29/2014
M. EVANS HANKEY	05/06/2014
JULIAN HOENIG	04/30/2014
RICHARD P. HOWARTH	05/01/2014
JONATHAN P. IVE	05/12/2014
DANIEL W. JARVIS	04/29/2014
DUNCAN ROBERT KERR	04/30/2014
MATTHEW DEAN ROHRBACH	04/30/2014
PETER RUSSELL-CLARKE	04/30/2014
MIKAEL SILVANTO	05/01/2014
JASON SLOEY	05/09/2014
IAN SPRAGGS	04/29/2014
CHRISTOPHER J. STRINGER	04/30/2014
TANG YEW TAN	04/29/2014
EUGENE ANTONY WHANG	04/30/2014
RICO ZÖRKENDÖRFER	05/12/2014

RECEIVING PARTY DATA

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

502814978 REEL: 032926 FRAME: 0001

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	29466515

CORRESPONDENCE DATA

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NAME OF SUBMITTER:	ERIN C. WONG
SIGNATURE:	/Erin C. Wong, Reg. No. 61,831/
DATE SIGNED:	05/19/2014

Total Attachments: 76

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PATENT

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ASSIGNMENT

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



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 Assignor had this assignment and sale not been made.

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

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

	Date:	Signature of Inventor:	Name:
1.	<u>14.30.14</u>	V GAR AM	Jody AKANA
2.	<u> </u>	<u> </u>	Bartley K. ANDRE
3.	1	1	Shota AOYAGI
		Page 2 of 4	



	Date:	Signature of Inventor:	Name:
4.	<u> V</u>		Jeremy BATAILLOU
5.	V	<u>√</u>	Lucy E. BROWNING
6.	1		Miguel CHRISTOPHY
7.	<u> </u>		Daniel J. COSTER
8.	<u> </u>		Daniele DE IULIIS
9.	1		Jonathan Corbin DENBY
10.	<u> </u>		Richard Hung Minh DINH
11.	<u> </u>		M. Evans HANKEY
12.	<u> </u>		Julian HOENIG
13.	<u>√</u>		Richard P. HOWARTH
14.	J		Jonathan P. IVE
15.	<u>√</u>		Daniel W. JARVIS
16.	<u> </u>		Duncan Robert KERR

Page 3 of 4



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Sterne, Kessler, Goldstein & Fox P.L.L.C. Appl. No. 29/466,515 Atty. Docket No. 2607.6770000(P21004US1)

	Date:	Signature of Inventor:	Name:
17.	<u> </u>		Matthew Dean ROHRBACH
18.	<u> </u>		Peter RUSSELL-CLARKE
19.			Mikael SILVANTO
20.	<u> </u>		Jason SLOEY
21.	<u> </u>		Ian SPRAGGS
22.	<u> </u>	<u> </u>	Christopher J. STRINGER
23.	<u> </u>		Tang Yew TAN
24.	<u> </u>	<u>√</u>	Eugene Antony WHANG
25.	<u>v</u>	J	Rico ZÖRKENDÖRFER

Page 4 of 4



ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by each of the undersigned inventors: Jody AKANA, Bartley K. ANDRE, Shota AOYAGI, Jeremy BATAILLOU, Lucy E. BROWNING, Miguel CHRISTOPHY, Daniel J. COSTER, Daniele DE IULIIS, Jonathan Corbin DENBY, Richard Hung Minh DINH, M. Evans HANKEY, Julian HOENIG, Richard P. HOWARTH, Jonathan P. IVE, Daniel W. JARVIS, Duncan Robert KERR, Matthew Dean ROHRBACH, Peter RUSSELL-CLARKE, Mikael SILVANTO, Jason SLOEY, Ian SPRAGGS, Christopher J. STRINGER, Tang Yew TAN, Eugene Antony WHANG and Rico ZÖRKENDÖRFER, the undersigned hereby sell and assign to Apple Inc., a corporation formed under the laws of the State of California, whose mailing address is 1 Infinite Loop, Cupertino, California 95014 (hereafter referred to as the Assignee), his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages, for the United States of America (as defined in 35 U.S.C. § 100) and throughout the world,

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	Date:	Signature of Inventor:	Name:
4,	<u>√</u>		Jeremy BATAILLOU
5.	<u> </u>	$\sqrt{}$	Lucy E. BROWNING
6.	<u> </u>		Miguel CHRISTOPHY
7.	4		Daniel J. COSTER
8.	4		Daniele DE IULIIS
9.	<u> </u>		Jonathan Corbin DENBY
10.	<u> 1</u>	<u> </u>	Richard Hung Minh DINH
11.	<u> </u>	<u> </u>	M. Evans HANKEY
12.	V	<u> </u>	Julian HOENIG
13.	<u>√</u>	<u> </u>	Richard P. HOWARTH
14.		√	Jonathan P. IVE
15.	<u>√</u>	<u> </u>	Daniel W. JARVIS
16.	√	<u> </u>	Duncan Robert KERR

Page 3 of 4



	Date:	Signature of Inventor:	Name:
17.	√		Matthew Dean ROHRBACH
18.	X		Peter RUSSELL-CLARKE
19.	<u>√</u>		Mikael SILVANTO
20.	<u> </u>		Jason SLOEY
21.	<u> </u>		Ian SPRAGGS
22.	<u> 4</u>		Christopher J. STRINGER
23,	<u>√</u>		Tang Yew TAN
24.	V V		Eugene Antony WHANG
25.	V	<u> </u>	Rico ZÖRKENDÖRFER
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Page 4 of 4



ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by each of the undersigned inventors: Jody AKANA, Bartley K. ANDRE, Shota AOYAGI, Jeremy BATAILLOU, Lucy E. BROWNING, Miguel CHRISTOPHY, Daniel J. COSTER, Daniele DE IULIIS, Jonathan Corbin DENBY, Richard Hung Minh DINH, M. Evans HANKEY, Julian HOENIG, Richard P. HOWARTH, Jonathan P. IVE, Daniel W. JARVIS, Duncan Robert KERR, Matthew Dean ROHRBACH, Peter RUSSELL-CLARKE, Mikael SILVANTO, Jason SLOEY, Ian SPRAGGS, Christopher J. STRINGER, Tang Yew TAN, Eugene Antony WHANG and Rico ZÖRKENDÖRFER, the undersigned hereby sell and assign to Apple Inc., a corporation formed under the laws of the State of California, whose mailing address is 1 Infinite Loop, Cupertino, California 95014 (hereafter referred to as the Assignee), his/her entire right, title and interest, including the right to sue for past infringement and to collect for all past, present and future damages, for the United States of America (as defined in 35 U.S.C. § 100) and throughout the world,

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	Date:	Signature of Inventor:	Name:
1.	<u>√</u>	1	Jody AKANA
2.	<u> </u>	√	Bartley K. ANDRE
3.	4/30/14	, 香椒 新六	Shota AOYAGI
		Page 2 of 4	



	Date:	Signature of Inventor:	Name:
4.	<u> </u>		Jeremy BATAILLOU
5.			Lucy E. BROWNING
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2.	<u> </u>		Bartley K. ANDRE
3.	$\sqrt{}$		Shota AOYAGI
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	Date:	Signature of Inventor:		Name:
4.	QA.30.14		,	Jeremy BATAILLOU
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14.	₹	<u>√</u>		Jonathan P. IVE
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21.	<u> </u>		Ian SPRAGGS
22.	<u> </u>		Christopher J. STRINGER
23.	<u>V</u>	<u></u>	Tang Yew TAN
24.	<u>√</u>		Eugene Antony WHANG
25.	V	<u>J</u>	Rico ZÖRKENDÖRFER
10261	661		



ASSIGNMENT

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



	Date:	Signature of Inventor:	Name:
4.	<u>√</u>	1	Jeremy BATAILLOU
5.	<u>v04/30/i4</u>	- Luysrouring	Lucy E. BROWNING
6.	<u> 1 4/29/1</u> 4	246-	Miguel CHRISTOPHY
7.	<u> </u>	ý	Daniel J. COSTER
8.	4	1	Daniele DE IULIIS
9.	V 4 29/1H	Janton C. Duly	Jonathan Corbin DENBY
10.	<u> 14/24/14</u>	LAULE	Richard Hung Minh DINH
11.	<u> </u>	1	M. Evans HANKEY
12.	<u> </u>	<u> </u>	Julian HOENIG
13.	√	1	Richard P. HOWARTH
14.	<u> 1</u>	<u> </u>	Jonathan P. IVE
15.	17/29/14	1DAC.	Daniel W. JARVIS
16.	<u> </u>	<u> </u>	Duncan Robert KERR

Page 3 of 4



	Date:	Signature of Inventor:	Name:
17.	X	1	Matthew Dean ROHRBACH
18.	A	4	Peter RUSSELL-CLARKE
19,	X	1	Mikael SILVANTO
20.	<u> 1</u>	<u> </u>	Jason SLOEY
21.	<u> </u>	4.5, -, -	Ian SPRAGGS
22.	<u> </u>		Christopher J. STRINGER
23.	<u>y 4/29/14</u>	1 1 1	Tang Yew TAN
24.	<u> </u>	1	Eugene Antony WHANG
25.	4	<u>√</u>	Rico ZÖRKENDÖRFER
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1.	V	<u> </u>	Jody AKANA
2.	V		Bartley K. ANDRE
3.	<u> </u>		Shota AOYAGI
		Page 2 of 4	



	Date:	Signature of Inventor:	Name:
4.	₹	<u> </u>	Jeremy BATAILLOU
5.	<u>√</u>	<u> 1</u>	Lucy E. BROWNING
6.	Ž	<u> </u>	Miguel CHRISTOPHY
7.	4.3010		Daniel J. COSTER
8.	V	3	Daniele DE IULIIS
9.	<u> </u>	_ \	Jonathan Corbin DENBY
10.	√	<u> </u>	Richard Hung Minh DINH
11.	<u> J</u>	<u> </u>	M. Evans HANKEY
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13.	<u> </u>		Richard P. HOWARTH
14.	<u>√</u>	<u> </u>	Jonathan P. IVE
15.	√		Daniel W. JARVIS
16.	V	٧	Duncan Robert KERR

Page 3 of 4



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Sterne, Kessler, Goldstein & Fox P.L.L.C. Appl. No. 29/466,515 Atty. Docket No. 2607.6770000(P21004US1)

	Date:	Signature of Inventor:	Name:
17.	<u> </u>	1	Matthew Dean ROHRBACH
18.	1		Peter RUSSELL-CLARKE
19.	<u>V</u>		Mikael SILVANTO
20,	1		Jason SLOEY
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2.	V		Bartley K. ANDRE
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		Page 2 of 4	



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5.	<u> </u>	Ŋ	Lucy E. BROWNING
6.	1	√	Miguel CHRISTOPHY
7.	<u> </u>	¥	Daniel J. COSTER
8.	4304	4444	Daniele DE IULIIS
9.	<i>√</i>	. 1	Jonathan Corbin DENBY
10.	√	<u>ý</u>	Richard Hung Minh DINH
11.	<u> </u>	1	M. Evans HANKEY
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14.	<u>V</u>	<u>. 1</u>	Jonathan P. IVE
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2. √	1	Bartley K. ANDRE
3. 1		Shota AOYAGI 2 of 4



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4.	<u> </u>	<u>V</u>	Jeremy BATAILLOU
5.	<u> </u>	<u> </u>	Lucy E. BROWNING
6.	<u> V</u>	1	Miguel CHRISTOPHY
7.	<u> L</u>	1	Daniel J. COSTER
8.	<u> 1</u>	<u> </u>	Daniele DE IULIIS
9.	<u>J</u>	1	Jonathan Corbin DENBY
10.	J.	<u> </u>	Richard Hung Minh DINH
11.	VS-6-14	,W	M. Evans HANKEY
12.	1	1	Julian HOENIG
13.	<u> </u>	1	Richard P. HOWARTH
14.	<u> </u>	₹	Jonathan P. IVE
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2.	· <u>/</u>	V.	Bartley K. ANDRE
3.	<u>√</u>	<u> </u>	Shota AOYAGI
		Page 2 of 4	



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25.	<u> </u>		Rico ZÖRKENDÖRFER
183616	56v1		

Page 4 of 4



ASSIGNMENT

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Date:	Signature of Inventor:	Name:
1. 🗸		Jody AKANA
2. 1		Bartley K. ANDRE
3. <u>√</u>		Shota AOYAGI



	Date:	Signature of Inventor:	Name:
4.	√	1	Jeremy BATAILLOU
5.			Lucy E. BROWNING
6.	<u> </u>	Y	Miguel CHRISTOPHY
7.			Daniel J. COSTER
8.			Daniele DE IULIIS
9.	<u> </u>	¥	Jonathan Corbin DENBY
10.			Richard Hung Minh DINH
11.	<u> </u>		M. Evans HANKEY
12.	<u> </u>		Julian HOENIG
13.	×5.1.14	LPHBARA -	Richard P. HOWARTH
14.	<u>√</u>	1	Jonathan P. IVE
15.	<u> </u>	<u> </u>	Daniel W. JARVIS
16.	<u>√</u>	<u>V</u>	Duncan Robert KERR

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	Date:	Signature of Inventor:	Name:
17.	V		Matthew Dean ROHRBACH
18.	<u>V </u>		Peter RUSSELL-CLARKE
19.			Mikael SILVANTO
20.	***************************************		Jason SLOEY
21.			Ian SPRAGGS
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	Date:	Signature of In	Inventor:	Name:
1.	√	<u>√</u>		Jody AKANA
2.	1	<u>√</u>		Bartley K. ANDRE
3.	<u> </u>	<u> </u>		Shota AOYAGI
			Page 2 of 4	



	Date:	Signature of Inventor:	Name:
4.	<u> </u>	V	Jeremy BATAILLOU
5.	<u> </u>		Lucy E. BROWNING
6.			Miguel CHRISTOPHY
7.	X		Daniel J. COSTER
8.	<u> </u>	X.	Daniele DE IULIIS
9.	<u> </u>		Jonathan Corbin DENBY
10.	1		Richard Hung Minh DINH
11.	<u> </u>		M. Evans HANKEY
12.	V		Julian HOENIG
13.	\		Richard P. HOWARTH
14.	<u>√5/12/14</u>		Jonathan P. IVE
15.	<u> </u>	Y	Daniel W. JARVIS
16.	√	1	Duncan Robert KERR

Page 3 of 4



	Date:	Signature of Inventor:	Name:
17.	<u>√</u>		Matthew Dean ROHRBACF
18.	4	<u>V</u>	Peter RUSSELL-CLARKE
19.	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		Mikael SILVANTO
20.	4	√	Jason SLOEY
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22.	1		Christopher J. STRINGER
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24.	1		Eugene Antony WHANG
25.	<u> </u>	<u> </u>	Rico ZÖRKENDÖRFER
102616	Co.1		

Page 4 of 4



ASSIGNMENT

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3.	<u> </u>		Shota AOYAGI
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4.	<u> </u>	V	Jeremy BATAILLOU
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16.	Varibo 204	+ <u>1127</u>	Duncan Robert KERR

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2.	<u>√</u>		Bartley K. ANDRE
3.	<u> </u>		Shota AOYAGI
		Page 2 of 4	



	Date:	Signature of Inventor:	Name:
4,	V	<u></u>	Jeremy BATAILLOU
5.			Lucy E. BROWNING
6.	<u> </u>		Miguel CHRISTOPHY
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16.	<u> </u>	_	Duncan Robert KERR

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	Date:	Signature of Inventor:	Name:
17.	√ 04 .30·14	1—————————————————————————————————————	Matthew Dean ROHRBACH
18.	1		Peter RUSSELL-CLARKE
19.	X		Mikael SILVANTO
20.	- <u>L</u>		Jason SLOEY
21.	<u> </u>	.√	Ian SPRAGGS
22.	<u> </u>		Christopher J. STRINGER
23.	<u>Ż</u>	<u>V</u>	Tang Yew TAN
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25.	\$	√	Rico ZÖRKENDÖRFER
1836166	vI		



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3. <u>\</u>	Shota AOYAGI Page 2 of 4



	Date:	Signature of Inventor:	Name:
4.	1		Jeremy BATAILLOU
5.	3 <u>4</u>		Lucy E. BROWNING
6.	· \frac{1}{2}		Miguel CHRISTOPHY
7.	<u> </u>		Daniel J. COSTER
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	Date:	Signature of Inventor:	Name:
17.	<u> </u>	V	Matthew Dean ROHRBACH
18.	<u>√4.30/4</u>	JARMALL.	Peter RUSSELL-CLARKE
19.			Mikael SILVANTO
20.	<u>.</u>		Jason SLOEY
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Page 4 of 4



ASSIGNMENT

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



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	Date:	Signature of Inventor:	Name:
1.	V		Jody AKANA
2.	V		Bartley K. ANDRE
3.	V		Shota AOYAGI
		Page 2 of 4	



	Date:	Signature of Inventor:	Name:
4.	<u> </u>	√	Jeremy BATAILLOU
5.	1		Lucy E. BROWNING
6.	<u> </u>		Miguel CHRISTOPHY
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15.	<u> </u>		Daniel W. JARVIS
16.	1		Duncan Robert KERR

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	Date:	Signature of Inventor:	Name:
17.	1		Matthew Dean ROHRBACH
18.			Peter RUSSELL-CLARKE
19.	105/01/14	<u> </u>	Mikael SILVANTO
20.	S. martin martin control contr		Jason SLOEY
21.	<u>.</u>		Ian SPRAGGS
22.	<u> 1</u>	<u> </u>	Christopher J. STRINGER
23.	<u> </u>		Tang Yew TAN
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15.	√.	<u>√</u>	Daniel W. JARVIS
16.	<u>√</u>	<u>√</u>	Duncan Robert KERR

Page 3 of 4

Sterne Kessler Goldstein Fox

Sterne, Kessler, Goldstein & Fox P.L.L.C. Appl. No. 29/466,515 Atty. Docket No. 2607.6770000(P21004US1)

	Date:	Signature of Inventor:	Name:
17.		<u> </u>	Matthew Dean ROHRBACH
18.			Peter RUSSELL-CLARKE
19.	- V		Mikael SILVANTO
20.	54.14	1.44-	Jason SLOEY
21.		<u> </u>	Ian SPRAGGS
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6.	* <u> </u>		Miguel CHRISTOPHY
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1836166v1

Sterne, Kessler, Goldstein & Fox P.L.L.C. Appl. No. 29/466,515 Atty. Docket No. 2607.6770000(P21004US1)

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19.	<u> </u>	<u>√</u>	Mikael SILVANTO
20.	<u> </u>	<u> </u>	Jason SLOEY
21.	<u> </u>	1	lan SPRAGGS
22.	1 9/34	14)	Christopher J. STRINGER
23.	1///	<u> </u>	Tang Yew TAN
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25.	√	√	Rico ZÖRKENDÖRFER

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9.	~ <u>√</u> ~~		Jonathan Corbin DENBY
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24.	<u>V</u>	- 1	Eugene Antony WHANG
25.	<u>@7.12.1</u>	4	Rico ZÖRKENDÖRFER
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Page 4 of 4

PATENT REEL: 032926 FRAME: 0079

RECORDED: 05/19/2014