

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

|                       |  |
|-----------------------|--|
| SUBMISSION TYPE:      | CORRECTIVE ASSIGNMENT  |
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the Fifth Assignor: Sawyer Issac Cohen and Sixteenth Assignor: Scott A. Porter previously recorded on Reel 029797 Frame 0702. Assignor(s) hereby confirms the Fifth Assignor should be: Sawyer Isaac Cohen and Sixteenth Assignor should be: Scott P. Porter. |

## CONVEYING PARTY DATA

| Name                        | Execution Date |
|-----------------------------|----------------|
| Jody AKANA                  | 02/06/2013     |
| Bartley K. ANDRE            | 02/06/2013     |
| John B. ARDISANA II         | 01/28/2013     |
| Jeremy BATAILLOU            | 02/06/2013     |
| Sawyer Isaac COHEN          | 01/29/2013     |
| Daniel J. COSTER            | 02/05/2013     |
| Ruchir DAVE                 | 01/28/2013     |
| Daniele DE IULIIS           | 02/06/2013     |
| M. Evans HANKEY             | 02/07/2013     |
| Julian HOENIG               | 02/06/2013     |
| Richard P. HOWARTH          | 02/06/2013     |
| Jonathan P. IVE             | 02/07/2013     |
| Duncan Robert KERR          | 02/06/2013     |
| Shin NISHIBORI              | 01/30/2013     |
| David A. PAKULA             | 01/29/2013     |
| Scott P. PORTER             | 01/29/2013     |
| Matthew Dean ROHRBACH       | 02/06/2013     |
| Peter RUSSELL-CLARKE        | 02/06/2013     |
| Ashutosh Y. SHUKLA          | 01/28/2013     |
| Jason SLOEY                 | 02/11/2013     |
| Ian SPRAGGS                 | 02/06/2013     |
| Christopher J. STRINGER     | 02/07/2013     |
| Tang Yew TAN                | 01/28/2013     |
| Eugene Antony WHANG         | 02/05/2013     |
| Michael Benjamin WITTENBERG | 01/28/2013     |
| Charles B. WOODHULL         | 02/09/2013     |
| Rico ZORKENDORFER           | 02/06/2013     |

OP \$40.00 29431725

## RECEIVING PARTY DATA

|                 |                 |
|-----------------|-----------------|
| Name:           | Apple Inc.      |
| Street Address: | 1 Infinite Loop |
| City:           | Cupertino       |
| State/Country:  | CALIFORNIA      |
| Postal Code:    | 95014           |

## PROPERTY NUMBERS Total: 1

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 29431725 |

## CORRESPONDENCE DATA

Fax Number: 2023712540  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*  
Phone: 2023712600  
Email: ewong@skgf.com, amottley@skgf.com  
Correspondent Name: Sterne, Kessler, Goldstein & Fox PLLC  
Address Line 1: 1100 New York Ave NW  
Address Line 4: Washington, DISTRICT OF COLUMBIA 20005

|                         |              |
|-------------------------|--------------|
| ATTORNEY DOCKET NUMBER: | 2607.4940000 |
|-------------------------|--------------|

|                    |              |
|--------------------|--------------|
| NAME OF SUBMITTER: | Erin C. Wong |
|--------------------|--------------|

## Total Attachments: 28

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Sterne, Kessler, Goldstein & Fox P.L.L.C.  
Atty. Docket No. 2607,4940000(P16715US1)

## 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, John B. ARDISANA II, Jeremy BATAILLOU, Sawyer Isaac COHEN, Daniel J. COSTER, Ruchir DAVE, Daniele DE IULIIS, M. Evans HANKEY, Julian HOENIG, Richard P. HOWARTH, Jonathan P. IVE, Duncan Robert KERR, Shin NISHIBORI, David A. PAKULA, Scott P. PORTER, Matthew Dean ROHRBACH, Peter RUSSELL-CLARKE, Ashutosh Y. SHUKLA, Jason SLOEY, Ian SPRAGGS, Christopher J. STRINGER, Tang Yew TAN, Eugene Antony WHANG, Michael Benjamin WITTENBERG, Charles B. WOODHULL, and Rico ZORKENDORFER**, 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,

(a) in the invention(s) known as **Components For An Electronic Device** for which an application(s) for patent in the United States of America has been executed by the undersigned and has a filing date or a 371(c) date of September 10, 2012 (also known as United States Application No. 29/431,725), 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;



Sterne, Kessler, Goldstein & Fox P.L.L.C.  
Appl. No. 29/431,725  
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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.

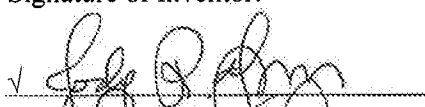

The undersigned inventors agree to execute all papers necessary in connection with the application(s) and any non-provisional, continuing (continuation, divisional, or continuation-in-part), reissue, reexamination or corresponding application(s) thereof and also to execute separate assignments in connection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

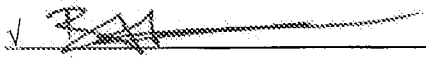
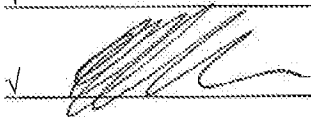
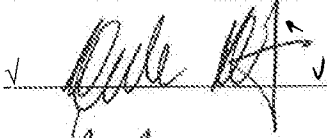
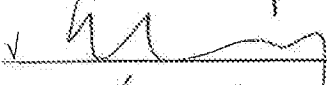
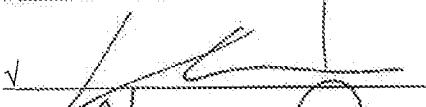
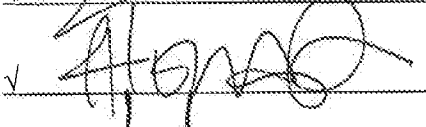

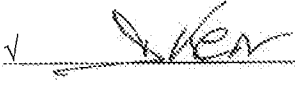
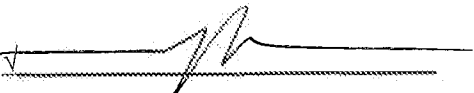
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The undersigned inventors hereby represent that he/she has full right to convey the entire interest herein assigned, and that he/she has not executed, and will not execute, any agreement in conflict therewith.

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


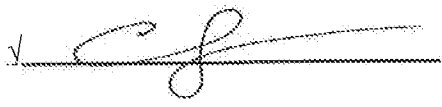
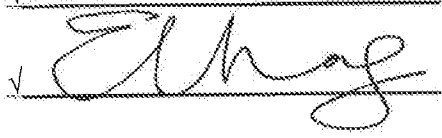
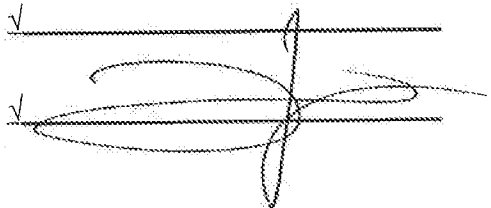
IN WITNESS WHEREOF, executed by the undersigned inventors on the dates opposite the undersigned names.

|    | Date:           | Signature of Inventor:  | Name:                      |
|----|-----------------|---|----------------------------|
| 1. | ✓ <u>2.6.13</u> | ✓  | <u>Jody AKANA</u>          |
| 2. | ✓ <u>2.6.13</u> | ✓  | <u>Bartley K. ANDRE</u>    |
| 3. | ✓ _____         | ✓ _____   | <u>John B. ARDISANA II</u> |

|     |             |   |                              |
|-----|-------------|---|------------------------------|
| 4.  | ✓ 2.6.13    | ✓    | <u>Jeremy BATAILLOU</u>      |
| 5.  | ✓           | ✓   | <u>Sawyer Isaac COHEN</u>    |
| 6.  | ✓ 2.5.13    | ✓    | <u>Daniel J. COSTER</u>      |
| 7.  | ✓           | ✓   | <u>Ruchir DAVE</u>           |
| 8.  | ✓ 2.6.13    | ✓    | <u>Daniele DE IULIIS</u>     |
| 9.  | ✓ 2.7.13    | ✓    | <u>M. Evans HANKEY</u>       |
| 10. | ✓ 2.6.13    | ✓   | <u>Julian HOENIG</u>         |
| 11. | ✓ 2.6.13    | ✓  | <u>Richard P. HOWARTH</u>    |
| 12. | ✓ 2.7.13    | ✓  | <u>Jonathan P. IVE</u>       |
| 13. | ✓ 2.06.2013 | ✓  | <u>Duncan Robert KERR</u>    |
| 14. | ✓           | ✓   | <u>Shin NISHIBORI</u>        |
| 15. | ✓           | ✓   | <u>David A. PAKULA</u>       |
| 16. | ✓           | ✓   | <u>Scott A. PORTER</u>       |
| 17. | ✓ 02.06.13  | ✓  | <u>Matthew Dean ROHRBACH</u> |



Sterne, Kessler, Goldstein & Fox P.L.L.C.  
Appl. No. 29/431,725  
Atty. Docket No. 2607.4940000(P16715US1)

|     |            |  |                                    |
|-----|------------|--|------------------------------------|
| 18. | ✓ 2.6.13   | ✓     | <u>Peter RUSSELL-CLARKE</u>        |
| 19. | ✓          | ✓  | <u>Ashutosh Y. SHUKLA</u>          |
| 20. | ✓          | ✓  | <u>Jason SLOEY</u>                 |
| 21. | ✓          | ✓  | <u>Ian SPRAGGS</u>                 |
| 22. | ✓ 2-7-15   | ✓     | <u>Christopher J. STRINGER</u>     |
| 23. | ✓          | ✓  | <u>Tang Yew TAN</u>                |
| 24. | ✓ 02.05.13 | ✓    | <u>Eugene Antony WHANG</u>         |
| 25. | ✓          | ✓  | <u>Michael Benjamin WITTENBERG</u> |
| 26. | ✓          | ✓  | <u>Charles B. WOODHULL</u>         |
| 27. | ✓ 02.06.13 | ✓  | <u>Rico Zorkendorfer</u>           |

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## 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, John B. ARDISANA II, Jeremy BATAILLOU, Sawyer Isaac COHEN, Daniel J. COSTER, Ruchir DAVE, Daniele DE IULIIS, M. Evans HANKEY, Julian HOENIG, Richard P. HOWARTH, Jonathan P. IVE, Duncan Robert KERR, Shin NISHIBORI, David A. PAKULA, Scott P. PORTER, Matthew Dean ROHRBACH, Peter RUSSELL-CLARKE, Ashutosh Y. SHUKLA, Jason SLOEY, Ian SPRAGGS, Christopher J. STRINGER, Tang Yew TAN, Eugene Antony WHANG, Michael Benjamin WITTENBERG, Charles B. WOODHULL, and Rico ZORKENDORFER**, 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,

(a) in the invention(s) known as **Components For An Electronic Device** for which an application(s) for patent in the United States of America has been executed by the undersigned and has a filing date or a 371(c) date of September 10, 2012 (also known as United States Application No. 29/431,725), 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

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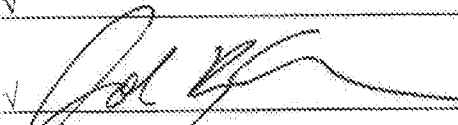
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IN WITNESS WHEREOF, executed by the undersigned inventors on the dates opposite the undersigned names.

|    | Date:     | Signature of Inventor:  | Name:               |
|----|-----------|---|---------------------|
| 1. | ✓         | ✓   | Jody AKANA          |
| 2. | ✓         | ✓   | Bartley K. ANDRE    |
| 3. | ✓ 1/29/13 | ✓  | John B. ARDISANA II |

Page 2 of 4


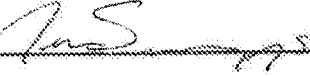
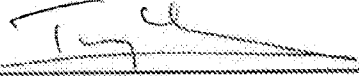



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|     |           |                      |                              |
|-----|-----------|----------------------|------------------------------|
| 4.  | ✓         | ✓                    | <u>Jeremy BATAILLOU</u>      |
| 5.  | ✓ 1/29/13 | ✓ <i>[Signature]</i> | <u>Sawyer Isaac COHEN</u>    |
| 6.  | ✓         | ✓                    | <u>Daniel J. COSTER</u>      |
| 7.  | ✓         | ✓                    | <u>Ruchir DAVE</u>           |
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| 15. | ✓ 1/29/13 | ✓ <i>[Signature]</i> | <u>David A. PAKULA</u>       |
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| 21. | ✓ 2/6/13  | ✓    | <u>Ian SPRAGGS</u>                 |
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| 27. | ✓         | ✓   | <u>Rico Zorkendorfer</u>           |

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|    | Date:   | Signature of Inventor: | Name:                      |
|----|---------|------------------------|----------------------------|
| 1. | ✓ _____ | ✓ _____                | <u>Jody AKANA</u>          |
| 2. | ✓ _____ | ✓ _____                | <u>Bartley K. ANDRE</u>    |
| 3. | ✓ _____ | ✓ _____                | <u>John B. ARDISANA II</u> |

Sterne Kessler  
Goldstein Fox

Sterne, Kessler, Goldstein & Fox P.L.L.C.  
Appl. No. 29/431,725  
Atty. Docket No. 2607.4940000(P16715US1)

|       |                             |                             |                              |
|-------|-----------------------------|-----------------------------|------------------------------|
| 4.    | <u>                    </u> | <u>                    </u> | <u>Jeremy BATAILLOU</u>      |
| 5.    | <u>                    </u> | <u>                    </u> | <u>Sawyer Isaac COHEN</u>    |
| 6.    | <u>                    </u> | <u>                    </u> | <u>Daniel J. COSTER</u>      |
| 7.    | <u>01/28/13</u>             | <u><i>Ruchir Dave</i></u>   | <u>Ruchir DAVE</u>           |
| 8.    | <u>                    </u> | <u>                    </u> | <u>Daniele DE IULIIS</u>     |
| 9.    | <u>                    </u> | <u>                    </u> | <u>M. Evans HANKEY</u>       |
| 10.   | <u>                    </u> | <u>                    </u> | <u>Julian HOENIG</u>         |
| 11.   | <u>                    </u> | <u>                    </u> | <u>Richard P. HOWARTH</u>    |
| <hr/> |                             |                             |                              |
| 12.   | <u>                    </u> | <u>                    </u> | <u>Jonathan P. IVE</u>       |
| 13.   | <u>                    </u> | <u>                    </u> | <u>Duncan Robert KERR</u>    |
| 14.   | <u>                    </u> | <u>                    </u> | <u>Shin NISHIBORI</u>        |
| 15.   | <u>                    </u> | <u>                    </u> | <u>David A. PAKULA</u>       |
| 16.   | <u>                    </u> | <u>                    </u> | <u>Scott A. PORTER</u>       |
| 17.   | <u>                    </u> | <u>                    </u> | <u>Matthew Dean ROHRBACH</u> |



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| 18. | <u>✓</u> | <u>✓</u> | <u>Peter RUSSELL-CLARKE</u>        |
| 19. | <u>✓</u> | <u>✓</u> | <u>Ashutosh Y. SHUKLA</u>          |
| 20. | <u>✓</u> | <u>✓</u> | <u>Jason SLOEY</u>                 |
| 21. | <u>✓</u> | <u>✓</u> | <u>Ian SPRAGGS</u>                 |
| 22. | <u>✓</u> | <u>✓</u> | <u>Christopher J. STRINGER</u>     |
| 23. | <u>✓</u> | <u>✓</u> | <u>Tang Yew TAN</u>                |
| 24. | <u>✓</u> | <u>✓</u> | <u>Eugene Antony WHANG</u>         |
| 25. | <u>✓</u> | <u>✓</u> | <u>Michael Benjamin WITTENBERG</u> |
| 26. | <u>✓</u> | <u>✓</u> | <u>Charles B. WOODHULL</u>         |
| 27. | <u>✓</u> | <u>✓</u> | <u>Rico Zorkendorfer</u>           |

1623508v1

## 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, John B. ARDISANA II, Jeremy BATAILLOU, Sawyer Isaac COHEN, Daniel J. COSTER, Ruchir DAVE, Daniele DE IULIIS, M. Evans HANKEY, Julian HOENIG, Richard P. HOWARTH, Jonathan P. IVE, Duncan Robert KERR, Shin NISHIBORI, David A. PAKULA, Scott P. PORTER, Matthew Dean ROHRBACH, Peter RUSSELL-CLARKE, Ashutosh Y. SHUKLA, Jason SLOEY, Ian SPRAGGS, Christopher J. STRINGER, Tang Yew TAN, Eugene Antony WHANG, Michael Benjamin WITTENBERG, Charles B. WOODHULL, and Rico ZORKENDORFER**, 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,

(a) in the invention(s) known as **Components For An Electronic Device** for which an application(s) for patent in the United States of America has been executed by the undersigned and has a filing date or a 371(c) date of September 10, 2012 (also known as United States Application No. 29/431,725), in any and all applications thereon, in any and all Letters Patent(s) therefor, and

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

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





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

|    | Date:    | Signature of Inventor: | Name:                      |
|----|----------|------------------------|----------------------------|
| 1. | <u>✓</u> | <u>✓</u>               | <u>Jody AKANA</u>          |
| 2. | <u>✓</u> | <u>✓</u>               | <u>Bartley K. ANDRE</u>    |
| 3. | <u>✓</u> | <u>✓</u>               | <u>John B. ARDISANA II</u> |

|     |                    |  |                              |
|-----|--------------------|--|------------------------------|
| 4.  | <u>✓</u>           | <u>✓</u>   | <u>Jeremy BATAILLOU</u>      |
| 5.  | <u>✓</u>           | <u>✓</u>   | <u>Sawyer Isaac COHEN</u>    |
| 6.  | <u>✓</u>           | <u>✓</u>   | <u>Daniel J. COSTER</u>      |
| 7.  | <u>✓</u>           | <u>✓</u>   | <u>Ruchir DAVE</u>           |
| 8.  | <u>✓</u>           | <u>✓</u>   | <u>Daniele DE JULIIS</u>     |
| 9.  | <u>✓</u>           | <u>✓</u>   | <u>M. Evans HANKEY</u>       |
| 10. | <u>✓</u>           | <u>✓</u>   | <u>Julian HOENIG</u>         |
| 11. | <u>✓</u>           | <u>✓</u>   | <u>Richard P. HOWARTH</u>    |
| 12. | <u>✓</u>           | <u>✓</u>   | <u>Jonathan P. IVE</u>       |
| 13. | <u>✓</u>           | <u>✓</u>   | <u>Duncan Robert KERR</u>    |
| 14. | <u>✓ 1.30.2013</u> | <u></u> | <u>Shin NISHIBORI</u>        |
| 15. | <u>✓</u>           | <u>✓</u>   | <u>David A. PAKULA</u>       |
| 16. | <u>✓</u>           | <u>✓</u>   | <u>Scott A. PORTER</u>       |
| 17. | <u>✓</u>           | <u>✓</u>   | <u>Matthew Dean ROHRBACH</u> |



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| 19. | <u>✓</u> | <u>✓</u> | <u>Ashutosh Y. SHUKLA</u>          |
| 20. | <u>✓</u> | <u>✓</u> | <u>Jason SLOEY</u>                 |
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| 22. | <u>✓</u> | <u>✓</u> | <u>Christopher J. STRINGER</u>     |
| 23. | <u>✓</u> | <u>✓</u> | <u>Tang Yew TAN</u>                |
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| 25. | <u>✓</u> | <u>✓</u> | <u>Michael Benjamin WITTENBERG</u> |
| 26. | <u>✓</u> | <u>✓</u> | <u>Charles B. WOODHULL</u>         |
| 27. | <u>✓</u> | <u>✓</u> | <u>Rico Zorkendorfer</u>           |

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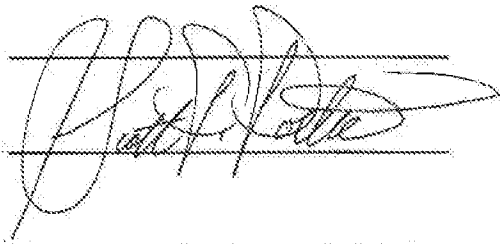
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|    | Date:   | Signature of Inventor: | Name:               |
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| 1. | ✓ _____ | ✓ _____                | Jody AKANA          |
| 2. | ✓ _____ | ✓ _____                | Bartley K. ANDRE    |
| 3. | ✓ _____ | ✓ _____                | John B. ARDISANA II |

|     |                    |  |                              |
|-----|--------------------|--|------------------------------|
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| 15. | _____              | _____  | <u>David A. PAKULA</u>       |
| 16. | <u>29 Jan 2013</u> |  | <u>Scott A. PORTER</u>       |
| 17. | _____              | _____  | <u>Matthew Dean ROHRBACH</u> |



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| 25. | <u>✓</u> | <u>✓</u> | <u>Michael Benjamin WITTENBERG</u> |
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| 1. | ✓ _____ | ✓ _____                | <u>Jody AKANA</u>          |
| 2. | ✓ _____ | ✓ _____                | <u>Bartley K. ANDRE</u>    |
| 3. | ✓ _____ | ✓ _____                | <u>John B. ARDISANA II</u> |

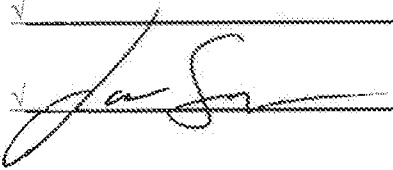


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| 20. | ✓ 2/11/13 | ✓  | <u>Jason SLOEY</u>                 |
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Atty. Docket No. 2607.4940000(P16715US1)

## 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, John B. ARDISANA II, Jeremy BATAILLOU, Sawyer Isaac COHEN, Daniel J. COSTER, Ruchir DAVE, Daniele DE IULIIS, M. Evans HANKEY, Julian HOENIG, Richard P. HOWARTH, Jonathan P. IVE, Duncan Robert KERR, Shin NISHIBORI, David A. PAKULA, Scott P. PORTER, Matthew Dean ROHRBACH, Peter RUSSELL-CLARKE, Ashutosh Y. SHUKLA, Jason SLOEY, Ian SPRAGGS, Christopher J. STRINGER, Tang Yew TAN, Eugene Antony WHANG, Michael Benjamin WITTENBERG, Charles B. WOODHULL, and Rico ZORKENDORFER**, 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,

(a) in the invention(s) known as **Components For An Electronic Device** for which an application(s) for patent in the United States of America has been executed by the undersigned and has a filing date or a 371(c) date of September 10, 2012 (also known as United States Application No. 29/431,725), 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;



Sterne, Kessler, Goldstein & Fox P.L.L.C.  
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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.

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>Jody AKANA</u>          |
| 2. | ✓ _____ | ✓ _____                | <u>Bartley K. ANDRE</u>    |
| 3. | ✓ _____ | ✓ _____                | <u>John B. ARDISANA II</u> |



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|     |          |          |                              |
|-----|----------|----------|------------------------------|
| 4.  | <u>✓</u> | <u>✓</u> | <u>Jeremy BATAILLOU</u>      |
| 5.  | <u>✓</u> | <u>✓</u> | <u>Sawyer Isaac COHEN</u>    |
| 6.  | <u>✓</u> | <u>✓</u> | <u>Daniel J. COSTER</u>      |
| 7.  | <u>✓</u> | <u>✓</u> | <u>Ruchir DAVE</u>           |
| 8.  | <u>✓</u> | <u>✓</u> | <u>Daniele DE IULIIS</u>     |
| 9.  | <u>✓</u> | <u>✓</u> | <u>M. Evans HANKEY</u>       |
| 10. | <u>✓</u> | <u>✓</u> | <u>Julian HOENIG</u>         |
| 11. | <u>✓</u> | <u>✓</u> | <u>Richard P. HOWARTH</u>    |
| 12. | <u>✓</u> | <u>✓</u> | <u>Jonathan P. IVE</u>       |
| 13. | <u>✓</u> | <u>✓</u> | <u>Duncan Robert KERR</u>    |
| 14. | <u>✓</u> | <u>✓</u> | <u>Shin NISHIBORI</u>        |
| 15. | <u>✓</u> | <u>✓</u> | <u>David A. PAKULA</u>       |
| 16. | <u>✓</u> | <u>✓</u> | <u>Scott A. PORTER</u>       |
| 17. | <u>✓</u> | <u>✓</u> | <u>Matthew Dean ROHRBACH</u> |

|     |                 |  |                                    |
|-----|-----------------|--|------------------------------------|
| 18. | <u>✓</u>        | <u>✓</u>   | <u>Peter RUSSELL-CLARKE</u>        |
| 19. | <u>✓</u>        | <u>✓</u>   | <u>Ashutosh Y. SHUKLA</u>          |
| 20. | <u>✓</u>        | <u>✓</u>   | <u>Jason SLOEY</u>                 |
| 21. | <u>✓</u>        | <u>✓</u>   | <u>Ian SPRAGGS</u>                 |
| 22. | <u>✓</u>        | <u>✓</u>   | <u>Christopher J. STRINGER</u>     |
| 23. | <u>✓</u>        | <u>✓</u>   | <u>Tang Yew TAN</u>                |
| 24. | <u>✓</u>        | <u>✓</u>   | <u>Eugene Antony WHANG</u>         |
| 25. | <u>✓</u>        | <u>✓</u>   | <u>Michael Benjamin WITTENBERG</u> |
| 26. | <u>✓ 2/9/13</u> | <u></u> | <u>Charles P. WOODHULL</u>         |
| 27. | <u>✓</u>        | <u>✓</u>   | <u>Rico Zorkendorfer</u>           |

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