502116448 11/02/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|------------------------|----------------|
| Thomas Matthieu Alsina | 10/26/2012 |
| Scott T. Boyd | 10/26/2012 |
| Michael Kuohao Chu | 10/27/2012 |
| Augustin J. Farrugia | 10/26/2012 |
| Gianpaolo Fasoli | 10/26/2012 |
| Patrice O. Gautier | 10/25/2012 |
| Sean B. Kelly | 10/26/2012 |
| Payam Mirrashidi | 11/01/2012 |
| Pedraum R. Pardehpoosh | 10/29/2012 |
| Conrad Sauerwald | 10/30/2012 |
| Kenneth W. Scott | 10/24/2012 |
| Rajit Shinh | 10/26/2012 |
| Braden Jacob Thomas | 10/30/2012 |
| Andrew R. Whalley | 10/29/2012 |

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: | 13668109 | |

CORRESPONDENCE DATA

4087208383 Fax Number:

PATENT

REEL: 029236 FRAME: 0523

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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ATTORNEY DOCKET NUMBER: 4860P16609

NAME OF SUBMITTER: James C. Scheller, Reg. No.: 31,195

Total Attachments: 12

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PATENT REEL: 029236 FRAME: 0524

| ASSIGNMENT OF PATENT APPLICATION | Attorney Docket No.: 4860P16609 |
|---|---|
| For good and valuable consideration, the receipt and | sufficiency of which is hereby |
| acknowledged, I/we, the undersigned, Thomas Matthieu A | Alsina, Scott T. Boyd, |
| Michael Kuohao Chu, Augustin J. Farrugia, Gianpaolo Faso | oli, Patrice O. Gautier, Sean B. Kelly, Payam |
| Mirrashidi, Pedraum R. Pardehpoosh, Conrad Sauerwald, K | enneth W. Scott, Rajit Shinh, |
| Braden Jacob Thomas, and Andrew R. Whalley | , |
| hereby sell, assign, and transfer to Apple Inc. | * |
| a <u>corporation</u> of <u>Cali</u> (Type of Assignee: e.g., corporation, company, partnership, university, | fornia etc.) |
| having a principal place of business at <u>1 Infinite Loop, C</u> | Cupertino, CA, 95014 , |
| ("Assignee"), and its successors, assigns, and legal represent the United States and all foreign countries, in and to any and disclosed in the application (provisional or non-provisional) non-provisional application may have a declaration executed concurrently herewith and which application (provisional or | I all inventions or improvements that are for the United States patent which for the I by the undersigned prior hereto or |
| SECURING IN-APP PUR | RCHASES |
| said patent application also identified as follows (when know | wn): |
| [I/we hereby authorize an attorney or agent for said number and filing date of said patent application wh | |
| United States Patent Application Number13/668,109 | filed November 2, 2012 , |
| and in and to said application (provisional or non-provisional provisional applications, utility applications, design applications, continued prosecution applications, continuated applications, renewal applications, reissue applications, reex applications that have been or shall be filed in the United Stainventions or improvements; and in and to all original patent certificates, and extensions, that have been or shall be issued countries on said inventions or improvements; and in and to filing of said United States application; | tions, divisional applications, continuation on-in-part applications, substitute taminations, extensions, and all other patent ates and all foreign countries on any of said ts, reissued patents, reexamination I in the United States and all foreign |
| agree that said Assignee may apply for and receive a improvements in its own name; and that, when requested, w Assignee, its successors, assigns, and legal representatives, t purpose of this Assignment, the undersigned will execute all applications, utility applications, design applications, division continued prosecution applications, continuation-in-part applications, reissue applications, reexaminations, extension | ithout charge to, but at the expense of, said to carry out in good faith the intent and provisional applications, non-provisional applications, continuation applications, dications, substitute applications, renewal |

and all said inventions or improvements; execute all rightful oaths, assignments, powers of attorney, and other papers; communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said inventions or improvements and the history thereof; and

- 1 - Rev. 1/08/2010

| Each Invent | or: Please S | Sign <u>and Date</u> Below: | |
|-----------------------|--------------|------------------------------|--|
| <u>Oct 26</u> Date | , 20 | Name: Thomas Matthieu Alsina | |
| Date | , 20 | Name: Scott T. Boyd: | |
| lo/⊇7 Date | , 20 12 | Name: Michael Kuohao Chu | |
| Date | _, 20 | Name: Augustin J. Farrugia | |
| Date | _, 20 | Name: Gianpaolo Fasoli | |
| Date | _, 20 | Name: Patrice O. Gautier | |
| 10 26 Date | . 20 11 | Name: Sean B. Kelly | |
| Date | _, 20 | Name: Payam Mirrashidi | |
| Date | _, 20 | Name: Pedraum R. Pardehpoosh | |
| Date | _, 20 | Name: Conrad Sauerwald | |
| | | | |

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

| , 20 Date | Name: Thomas Matthieu Alsina |
|--------------------------|------------------------------|
| October 26, 2012 Date | Name: Scott T. Boyd. |
| , 20 | Name: Michael Kuohao Chu |
| Date , 20 | Name: Augustin J. Farrugia |
| , 20, Date | Name: Gianpaolo Fasoli |
| , 20 | Name: Patrice O. Gautier |
| , 20 | Name: Sean B. Kelly |
| Date , 20 | Name: Payam Mirrashidi |
| , 20, 20 | Name: Pedraum R. Pardehpoosh |
| Date | Name: Conrad Sauerwald |

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| | , 20 | |
| Date | | Name: Thomas Matthieu Alsina |
| Date | , 20 | Name: Scott T. Boyd: |
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| 10 16 b Date | _, 20 <i>[L</i> | Hand Augustin I. Farrugia |
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| Date | , 20 | Name: Patrice O. Gautier |
| Date | | Name: Sean B. Kelly |
| Date | , 20 | Name: Payam Mirrashidi |
| Date | , 20 | Name: Pedraum R. Pardehpoosh |
| Date | , 20 | Name: Conrad Sauerwald |

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| Date | • | Name. Scott 1. Boyd. | |
| Date | , 20 | Name: Michael Kuohao Chu | |
| Date | , 20 | Name: Augustin J. Farrugia | |
| Date | , 20 | Name: Gianpaolo Fasoli | |
| Of 25 Date | , 20 12 | Name: Patrice O. Gautier | |
| Date | , 20 | Name: Sean B. Kelly | |
| Date | , 20 | Name: Payam Mirrashidi | |
| Date | , 20 | Name: Pedraum R. Pardehpoosh | |
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| Date | | Name: Conrad Sauerwald | |
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| Date | , 20 | Name: Augustin J. Farrugia | |
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| Date | , 20 | Name: Patrice O. Gautier | |
| | , 20 | | |
| Date | Properties C Section 1997 | Name: Sean B. Kelly | |
| // (/ Date | , 2012 | Payam Mirrashidi | |
| | , 20 | Name: Pedraum R. Pardehpoosh | |
| Date | 20 | Name: Pedraum R. Pardehpoosh | |
| Date | , 20 | Name: Conrad Sauerwald | |

| Each Invent | tor: Please ! | Sign and Date Below: |
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| Date | | Name: Scott T. Boyd: |
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| Date | | Name: Michael Kuohao Chu |
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| Date | | Name: Augustín J. Farrugia |
| Date | , 20 | Manny Olympia L. Carell |
| Date | | Name: Gianpaolo Fasoli |
| Date | 20 | Name: Patrice O. Gautier |
| 6.75 N.C. 16 No. | | Name. Patrice O. Gaunei |
| Date | , 20 | Name: Sean B. Kelly |
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| Date | | Name: Payam Mirrashidi |
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| Date | | Name: Pedraum R. Pardehpoosh |
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| Date | | Name: Gianpaolo Fasoli |
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| Date | , 20 | Name: Patrice O. Gautier |
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| Date | , 20 | Name: Payam Mirrashidi |
| Date | , 20 | Name: Pedraum R. Pardehpoosh |
| Oct 3 | SO , 20 1Z | Name: Conrad Sauerwald |

PATENT REEL: 029236 FRAME: 0532

| 10 2 / , 20 / 4 Date | Name: Kenneth W. Scott |
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| Date , 20 | Name: Rajit Shinh |
| , 20 Date | Name: Braden Jacob Thomas |
| , 20 | Name: Andrew R. Whalley |

- 3 -

Assignment Document Return Address: BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP 1279 Oakmead Parkway Sunnyvale, CA 94085-4040 (408) 720-8300

PATENT Rev. 1/08/2010

REEL: 029236 FRAME: 0533

| Date Oct 26 Date | _, 20, 20 | Name: Kenneth W. Scott Name: Rauit Shirin |
|--------------------|-----------|---|
| Date | , 20 | Name: Braden Jacob Thomas |
| Date | , 20 | Name: Andrew R. Whalley |
| | | Assignment Document Return Address: BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP 1279 Oakmead Parkway Sunnyvale, CA 94085-4040 (408) 720-8300 |
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| Name: Kenneth W. Scott |
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| Name: Braden Jacob Thomas |
| Name; Andrew R. Whalley |
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