

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT2712898

| SUBMISSION TYPE: | NEW ASSIGNMENT | | | | | | | | | | | | | | |
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| NATURE OF CONVEYANCE: | ASSIGNMENT | | | | | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | | | | | |
| <table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>BYUNG DUK YANG</td><td>01/27/2014</td></tr><tr><td>KYUNG-WOOK KIM</td><td>01/27/2014</td></tr><tr><td>SHIH-CHANG CHANG</td><td>01/24/2014</td></tr><tr><td>HIROSHI OSAWA</td><td>01/27/2014</td></tr><tr><td>HIROKAZU YAMAGATA</td><td>01/27/2014</td></tr><tr><td>DAISUKE NOZU</td><td>01/27/2014</td></tr></tbody></table> | | Name | Execution Date | BYUNG DUK YANG | 01/27/2014 | KYUNG-WOOK KIM | 01/27/2014 | SHIH-CHANG CHANG | 01/24/2014 | HIROSHI OSAWA | 01/27/2014 | HIROKAZU YAMAGATA | 01/27/2014 | DAISUKE NOZU | 01/27/2014 |
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| <table border="1"><tr><td>Name:</td><td>Apple Inc.</td></tr><tr><td>Street Address:</td><td>1 Infinite Loop</td></tr><tr><td>City:</td><td>Cupertino</td></tr><tr><td>State/Country:</td><td>CALIFORNIA</td></tr><tr><td>Postal Code:</td><td>95014</td></tr></table> | | Name: | Apple Inc. | Street Address: | 1 Infinite Loop | City: | Cupertino | State/Country: | CALIFORNIA | Postal Code: | 95014 | | | | |
| Name: | Apple Inc. | | | | | | | | | | | | | | |
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| Postal Code: | 95014 | | | | | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | | | | | |
| <table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>14164026</td></tr></tbody></table> | | Property Type | Number | Application Number: | 14164026 | | | | | | | | | | |
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| Application Number: | 14164026 | | | | | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | | | | | |
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| <i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i> | | | | | | | | | | | | | | | |
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| ATTORNEY DOCKET NUMBER: | P21148US1 | | | | | | | | | | | | | | |
| NAME OF SUBMITTER: | VICTORIA AVALOS | | | | | | | | | | | | | | |

| | |
|---|-------------------|
| Signature: | /Victoria Avalos/ |
| Date: | 02/04/2014 |
| Total Attachments: 4 source=P21148US1_Assignment#page1.tif source=P21148US1_Assignment#page2.tif source=P21148US1_Assignment#page3.tif source=P21148US1_Assignment#page4.tif | |

A S S I G N M E N T

WHEREAS, We, Byung Duk Yang, Kyung-Wook Kim, Shih-Chang Chang, Hiroshi Osawa, Hirokazu Yamagata, and Daisuke Nozu, residing respectively in Cupertino, California, Cupertino, California, Cupertino, California, Sunnyvale, California, Adachi City, Tokyo, and Saitama City, Saitama Prefecture, have made an invention entitled:

BORDER MASKING STRUCTURES FOR LIQUID CRYSTAL DISPLAY

and

(1) are about to make an application for United States Letters Patent therefor, the same having been executed by us on even date herewith

OR

(2) have made an application for United States Letters Patent therefor, the same having been filed on (_____) under Application No. (_____), in connection with which we hereby authorize and request the assignee's attorneys associated with Customer Number 65015 to insert within the foregoing parentheses the filing date and Application No. of said application when known; and

WHEREAS, APPLE INC., a corporation organized and existing under the laws of the State of California and having an address of 1 Infinite Loop, Cupertino, California 95014, is desirous of acquiring the entire interest in said invention, said United States patent application and in any Letters Patent which may issue thereon;

NOW, THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) paid, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we do hereby sell, assign and transfer unto the said APPLE INC., its successors, assigns and legal representatives, all right, title and interest in and to said invention and any improvements thereon for all countries of the world, and in and to said United States patent application, including any continuations, continuations-in-part and divisions thereof, and any substitute applications therefor, and including the right to claim priority under the International Convention based on said patent application, and any patent which may issue thereon, and any reissues of the same; and all right, title and interest in and to every patent application filed or to be filed on said invention in any other country, including renewals, revivals, continuations and divisions thereof, and any substitute applications therefor, and any and all patents which may issue thereon, and any reissues and extensions of the same;

and we hereby authorize and request competent authorities to grant and issue any and all patents on said invention to the said APPLE INC. as the assignee of the entire interest therein; and we further agree to execute upon request of the assignee such additional documents, if any, as are necessary and proper to secure patent protection on said invention throughout all countries of the world, and to otherwise give full effect to and perfect the rights of the assignee under this Assignment.

IN TESTIMONY WHEREOF, we have hereunto signed our names on the dates indicated hereinafter.

1/27/2014

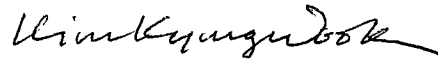
Date



Byung Duk Yang

1/27

Date



Kyung-Wook Kim

1/24/14

Date



Shih-Chang Chang

1/27/14

Date



Hiroshi Osawa

Date

Hirokazu Yamagata

Date

Daisuke Nozu

P21148US1

IN TESTIMONY WHEREOF, we have hereunto signed our names on the dates indicated hereinafter.

| | |
|--------------------------|--|
| _____ Date | _____ Byung Duk Yang |
| _____ Date | _____ Kyung-Wook Kim |
| _____ Date | _____ Shih-Chang Chang |
| _____ Date | _____ Hiroshi Osawa |
| <u>1/27/2014</u> Date | <u><i>H. Yamagata</i></u> Hirokazu Yamagata |
| <u>1/27/2014</u> Date | <u><i>D. Nozu</i></u> Daisuke Nozu |