

Form PTO-1595 (Rev. 03-09)
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United States Patent and Trademark Office

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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):

Steven Porter HOTELLING (8/19/2009); Marduke
YOUSEFPOR (8/18/2009), Shih Chang CHANG
(8/20/2009)

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s): in parentheses after inventor name

☒ Assignment ☐ Merger ☐ Change of Name

☐ Security Agreement ☐ Joint Research Agreement

☐ Government Interest Assignment

☐ Executive Order 9424, Confirmatory License

☐ Other

2. Name and address of receiving party(ies)

Name: Apple Inc.

Internal Address:

Street Address:

1 Infinite Loop

City: Cupertino

State: California

Country: United States of America Zip: 95014

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

☒ This document is being filed together with a new application.

A. Patent Application No.(s)

Application No. 12/545,557
Filed:

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Glenn M. Kubota
MORRISON & FOERSTER LLP

Internal Address: Atty. Dkt.: 106842028100

Street Address: 555 West Fifth Street

City: Los Angeles

State: CA Zip: 90013-1024

Phone Number: (213) 892-5752

Fax Number: (213) 892-5454

Email Address: GKubota@mofo.com

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

☒ Authorized to be charged to deposit account

☐ Enclosed

☐ None required (government interest not affecting title)

8. Payment Information

Deposit Account Number 03-1952

Authorized User Name Glenn M. Kubota

9. Signature:



Signature

August 21, 2009

Date

Glenn M. Kubota - 44,197

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

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PATENT
REEL: 023132 FRAME: 0670

CH \$40.00 031952 12645557

Attorney Docket No.: 106842028100

**ASSIGNMENT
JOINT**

THIS ASSIGNMENT, by **Steven Porter HOTELLING, Marduke YOUSEFPOR and Shih Chang CHANG**, each having a post office address at **c/o Apple Inc., 1 Infinite Loop, Cupertino, California 95014, US**, (hereinafter referred to as the assignors), witnesseth:

WHEREAS, said assignors have invented certain new and useful improvements in **DUAL CONFIGURATION FOR DISPLAY DATA LINES**, set forth in an application for Letters Patent of the United States, and

- ☒ having an oath or declaration executed on even date herewith;
- ☐ that was filed on _____ as U.S. Patent Application No. _____
☒ which is a nonprovisional of U.S. Provisional Application Nos. 61/149,267 filed on February 2, 2009; and

WHEREAS, **APPLE INC.**, a corporation duly organized under and pursuant to the laws of the State of California, and having its principal place of business at **1 Infinite Loop, Cupertino, California 95014, US** (hereinafter referred to as the assignee), is desirous of acquiring the entire right, title and interest in and to said inventions and said application for Letters Patent of the United States, and in and to any Letters Patent or Patents, United States or foreign, to be obtained therefor and thereon:

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, said assignors have sold, assigned, transferred and set over, and by these presents does sell, assign, transfer and set over, unto said assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all provisionals, divisions, continuations and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said assignee, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignors, had this sale and assignment not been made.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignors are the sole and lawful owner of the entire right, title and interest in and to said inventions and the application for Letters Patent above-mentioned, and that the same are unencumbered and that said assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignors will, whenever counsel of said assignee, or the counsel of its successor, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do

Attorney Docket No.: 106842028100

all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.

AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said inventions and the Letters Patent to be issued thereon for the sole use of said assignee, its successors, legal representatives and assigns.

The Undersigned hereby grant(s) the practitioners at Customer Number: 69753,

all of Morrison & Foerster LLP and Apple Inc., the power to insert on this assignment any further identification which 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, including the power to insert here in parentheses (Application number _____, filed _____) the application number and filing date of said application when known.

Date_____
Steven Porter HOTELLING
Assignor_____
Date

08-18-2009

Marduke YOUSEF
Assignor_____
Date_____
Shih Chang CHANG
Assignor

Attorney Docket No.: 106842028100

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8/19/09
Date

Steven P. Hotelling
Steven Porter HOTELLING
Assignor

Date

Marduke YOUSEFPOR
Assignor

8/20/09
Date

Shih Chang Chang
Shih Chang CHANG
Assignor