


Form PTO-1595 (Rev. 08/05)
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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): Martin Paul GRUNTHANER (5/30/2008); Lili HUANG (5/30/2008)		2. Name and address of receiving party(ies) Name: <u>Apple Inc.</u> Internal Address: _____ Street Address: <u>1 Infinite Loop</u> City: <u>Cupertino</u> State: <u>CA</u> Zip: <u>95014</u> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of conveyance/Execution Date(s): Execution Date(s): <u>May 30, 2008</u> <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Change of Name <input type="checkbox"/> Security Agreement <input type="checkbox"/> Joint Research Agreement <input type="checkbox"/> Government Interest Assignment <input type="checkbox"/> Executive Order 9424, Confirmatory License <input type="checkbox"/> Other _____		4. Application or patent number(s): A. Patent Application No.(s) <u>12/135,038</u> Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No B. Patent No.(s) This document is being filed together with a new application. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Name and address to whom correspondence concerning document should be mailed: Name: <u>Glenn M. Kubota</u> Internal Address: Atty. Dkt.: <u>106842019400</u> Street Address: <u>Morrison & Foerster LLP</u> <u>555 West Fifth Street, Suite 3500</u> City: <u>Los Angeles</u> State: <u>CA</u> Zip: <u>90013</u> Phone Number: <u>213.892.5752</u> Fax Number: <u>213.892.5454</u> Email Address: <u>gkubota@mofo.com</u>		6. Total number of applications and patents involved: <u>One</u> 7. Total fee (37 CFR 1.21(h) & 3.41) \$ _____ <input type="checkbox"/> Authorized to be charged by credit card <input checked="" type="checkbox"/> Authorized to be charged to deposit account <input type="checkbox"/> Enclosed <input type="checkbox"/> None required (government interest not affecting title)	
9. Signature:  Signature <u>Glenn M. Kubota</u> Name of Person Signing		8. Payment Information a. Credit Card Last 4 Numbers _____ Expiration Date _____ b. Deposit Account Number <u>03-1952</u> Authorized User Name <u>Glenn M. Kubota</u> Date <u>June 6, 2008</u> Total number of pages including cover sheet, attachments, and documents: <u>3</u>	

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PATENT
REEL: 021063 FRAME: 0340

ASSIGNMENT JOINT

THIS ASSIGNMENT, by **Martin Paul GRUNTHANER**, residing at 1177 Church Street, San Francisco, CA 94114 US; and **Lili HUANG**, residing at 1061 Wunderlich Drive, San Jose, California 95129 US (hereinafter referred to as the assignors), witnesseth:

WHEREAS, said assignors have invented certain new and useful improvements in **HIGH RESISTIVITY METAL FAN OUT**, set forth in an application for Letters Patent of the United States, and (check all that apply)

- ☒ having an oath or declaration executed on even date herewith;
☐ which is a U.S. Provisional application filed on _____ as No. _____
☐ which was filed on _____ as U.S. Patent Application No. _____
☐ which is the nonprovisional of U.S. Provisional Application No. _____ filed on _____; 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, USA** (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 all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters

Attorney Docket No.: 106842019400


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.

5/30/2008
Date



Martin Paul GRUNTHANER
Assignor

5/30/2008
Date



Lili Huang
Assignor

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FROM: Cheryl Y. Price**DATE:** June 6, 2008

Number of pages with cover page:	4	RE: U.S. Patent Application No.12/135,038 Our Ref.: 10684-20194.00
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Dated: June 6, 2008

 (Cheryl Price)

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