| PATENTS O   | NLY  |
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| 1. Name of conveying party(ies):  | 2. Name and address of receiving party(ies)                                      |
| Wayne Carl WESTERMAN; John Greer ELIAS;   | Name: Apple Inc  |
| Steve Porter HOTELLING; and Duncan KERR   | Internal Address:  |
| Additional name(s) of conveying party(ies) attached?  | Street Address:  |
| 3. Nature of conveyance/Execution Date(s):  | -  |
| Execution Date(s): June 12, 2007  | 1 Infinite Loop  |
| Assignment Merger Change of Name  | -  |
| Security Agreement Joint Research Agreement   | City:Cupertino   |
|   |  |
| Government Interest Assignment  | State: California  |
| Executive Order 9424, Confirmatory License  | Country: United States of America Zip: 95014<br>Additional name(s) & address(es) |
| X    Other    Correction of State of Incorporation on<br>Assignment Document reel:019495  | attached? Yes X No   |
| frame:0990  |  |
|   | This document is being filed together with a new application                     |
| 4. Application or patent number(s):<br>A. Patent Application No.(s)   | B. Patent No.(s)   |
| A. Patent Application No.(s)<br>11/818,477  |  |
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| Additional numbers attache  | ad? Yes XNo  |
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|   | a Total number of configurations and   |
| 5. Name and address to whom correspondence<br>concerning document should be mailed:   | 6. Total number of applications and 1 patents involved:                          |
| concerning document should be mailed:<br>Name: Glenn M. Kubota  | patents involved:  |
| concerning document should be mailed:<br>Name: Glenn M. Kubota<br>MORRISON & FOERSTER LLP   | patents involved:  |
| concerning document should be mailed:<br>Name: Glenn M. Kubota<br>MORRISON & FOERSTER LLP<br>Internal Address: Atty. Dkt.: 106842006600   | patents involved:  |
| concerning document should be mailed:<br>Name: Glenn M. Kubota<br>MORRISON & FOERSTER LLP   | patents involved:  |
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| concerning document should be mailed:<br>Name: Glenn M. Kubota<br>MORRISON & FOERSTER LLP<br>Internal Address: Atty. Dkt.: 106842006600<br>Street Address: 555 West Fifth Street  | patents involved:  |
| concerning document should be mailed:    Name:  Glenn M. Kubota    MORRISON & FOERSTER LLP    Internal Address: Atty. Dkl.: 106842006600    Street Address: 555 West Fifth Street    City:  Los Angeles    Other Street   | patents involved:  |
| concerning document should be mailed:    Name:  Glenn M. Kubota    MORRISON & FOERSTER LLP    Internal Address: Atty. Dkl.: 106842006600    Street Address: 555 West Fifth Street    City:  Los Angeles    State:  CA  Zip:  90013-1024   | patents involved:  |
| concerning document should be mailed:    Name:  Glenn M. Kubota    MORRISON & FOERSTER LLP    Internal Address: Atty. Dkl.: 106842006600    Street Address: 555 West Fifth Street    City:  Los Angeles    State:  CA  Zip:  90013-1024   | patents involved:  |
| concerning document should be mailed:    Name:  Glenn M. Kubota    MORRISON & FOERSTER LLP    Internal Address: Atty. Dkt.: 106842006600    Street Address: 555 West Fifth Street    City:  Los Angeles    State:  CA  Zip:  90013-1024    Phone Number:  (213) 892-5752  | patents involved:  |
| concerning document should be mailed:    Name:  Glenn M. Kubota    MORRISON & FOERSTER LLP    Internal Address: Atty. Dkt.: 106842006600    Street Address: 555 West Fifth Street    City:  Los Angeles    State:  CA  zip:  90013-1024    Phone Number:  (213) 892-5752    Fax Number:  (213) 892-5454   | patents involved:  |
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| concerning document should be mailed:    Name:  Glenn M. Kubota    MORRISON & FOERSTER LLP    Internal Address: Atty. Dkt.: 106842006600    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    9. Signature:  Signature    Glenn M. Kubota - 44,197  Name of Person Signing | patents involved:    7. Total fee (37 CFR 1.21(h) & 3.41) \$                     |
| concerning document should be mailed:    Name:  Glenn M. Kubota    MORRISON & FOERSTER LLP    Internal Address: Atty. Dkt.: 106842006600    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    9. Signature:  | patents involved:    7. Total fee (37 CFR 1.21(h) & 3.41) \$                     |
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| e and address of receiving party(ies)   |  |  |  |  |  |
| Name:Apple Inc  |  |  |  |  |  |
| Address:  |  |  |  |  |  |
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| Cupertino   |  |  |  |  |  |
| California  |  |  |  |  |  |
| United States of America Zip: 95014   |  |  |  |  |  |
| nal name(s) & address(es) Yes X No  |  |  |  |  |  |
| ]Yes XN0  |  |  |  |  |  |
| number of applications and 1<br>Its involved:   |  |  |  |  |  |
| fee (37 CFR 1.21(h) & 3.41) \$ 40.00<br>Authorized to be charged by credit card<br>Authorized to be charged to deposit account<br>Enclosed<br>None required (government interest not affecting tille) |  |  |  |  |  |
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| Expiration Date   |  |  |  |  |  |
| posit Account Number 03-1952  |  |  |  |  |  |
| thorized User Name Glenn M. Kubota  |  |  |  |  |  |
| June 13, 2007<br>Date<br>Total number of pages including cover<br>sheet, attachments, and documents:  |  |  |  |  |  |
|   |  |  |  |  |  |

Express Mail Label No. EV786080988US

Client Ref.: P5007US1

la-923869

Attorney Docket No.: 106842006600

## ASSIGNMENT JOINT

(-1)

THIS ASSIGNMENT, by **Wayne Carl WESTERMAN**, residing at 260 King Street, Apt. 1507, San Francisco, California 94107 US; **John Greer ELIAS**, residing at 798 Taylors Bridge Road, Townsend, Delaware 19734 US; **Steve Porter HOTELLING**, residing at 1351 Hidden Mine Road, San Jose, California 95120 US; and **Duncan KERR** with an 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 INTEGRATED MULTI-TOUCH SURFACE HAVING VARYING SENSOR GRANULARITY, set forth in an application for Letters Patent of the United States, having an oath or declaration executed on even date herewith; 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 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 he 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 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.

P5007US1 PATENT REEL: 020441 FRAME: 0440

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la-921923

AND said assigners 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.

"We hereby authorize and request the assignee's attorneys, Morrison & Foerster LLP, to insert liere in parentheses (Application number \_\_\_\_\_\_, filed \_\_\_\_\_\_) the application number and filing date of said application when known "

| nung date of said appres |                      |  |
|--------------------------|----------------------|--|
| Lune 12 2007             | Waise Westerman      |  |
| Date /                   | Wayne Carl WESTERMAN |  |
| 7                        | Assignors            |  |

Date

John Greer ELIAS Assignors

Date

Steve Porter HOTELLING Assignors

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Date

Duncan KERR Assignors

la-921923

P5007US1

Attorney Docket No.: 106842006600

AND said assigners 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.

"We hereby authorize and request the assignce's attorneys, Morrison & Foerster LLP, to insert here in parentheses (Application number \_\_\_\_\_\_\_, filed \_\_\_\_\_\_) the application number and filing date of said application when known."

Date

Wayne Carl WESTERMAN Assignors

John Greer ELIAS

Assignors

Date

Steve Porter HOTELLING Assignors

Date

18-071077

Duncan KERR Assignors

P5007US1

PATENT REEL: 020441 FRAME: 0442

Attorney Docket No.: 106842006600

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

"We hereby anthorize and request the assignee's attorneys, Morrison & Foerster LLP, to insert here in parentheses (Application number \_\_\_\_\_\_, filed \_\_\_\_\_\_) the application number and filing date of said application when known."

Date

Wayne Carl WESTERMAN Assignots

Date

John Greer ELIAS Assignors

Date

Steve Porter HOTELLING Assignors

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Duncan KERR Assignors

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PATENT REEL: 020441 FRAME: 0443 AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignce as the assignce of said inventions and the Letters Patent to be issued thereon for the sole use of said assignce, its successors, legal representatives and assigns.

"We hereby authorize and request the assignee's attorneys, Morrison & Foerster LLP, to insert here in parentheses (Application number \_\_\_\_\_\_, filed \_\_\_\_\_\_) the application number and filing date of said application when known."

Date

Wayne Carl WESTERMAN Assignors

Date

John Greer ELIAS Assignors

Date

Steve Porter HOTELLING Assignors

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0<u>1/3</u>0/2008 11:38 FAX 2138925<u>454 \_\_\_\_\_MORRISON </u>FOERSTER # 4 \_\_\_\_\_ 2009

):GLENN M. KUBOTA COMPANY:MORRISON & FOERSTER LLP



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\*7003574054\*

JANUARY 23, 2008

PTAS

GLENN M. KUBOTA MORRISON & FOERSTER LLP 555 WEST FIFTH STREET LOS ANGELES, CA 90013-1024

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FOERSTER MORRISON

555 WEST FIFTH STREET LOS ANGELES CALIFORNIA 90013-1024

TELEPHONE: 213.892.5200 FACSIMILE: 213.892.5454

WWW.MOFO.COM

MORRISON & FOERSTER LLP

NEW YORK, SAN FRANCISCO, Los Angeles, Palo Alto, San Diego, Washington, D.C.

DENVER, NORTHERN VIRGINIA, ORANGE COUNTY, SACRAMENTO, WALNUT CREEK, CENTURY CITY

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FROM: Mary Helen Lopez DATE: Janu

January 30, 2008

|                  |    | RE: U.S. Application No.: 11/818,477 |
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| Number of pages  | 10 |                                      |
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