PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT3652465

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

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------|----------------|
| YEPING SU | 12/09/2015 |
| CHRIS Y. CHUNG | 12/09/2015 |
| HSI-JUNG WU | 12/09/2015 |
| XIAOSONG ZHOU | 12/09/2015 |
| JIEFU ZHAI | 12/09/2015 |

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: | 14964965 |

CORRESPONDENCE DATA

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SUITE 700 Address Line 2:

Address Line 4: WASHINGTON, D.C. 20005

| ATTORNEY DOCKET NUMBER: | 13316/2604001 |
|-------------------------|---------------|
| NAME OF SUBMITTER: | JENEY HAN |
| SIGNATURE: | /Jeney Han/ |
| DATE SIGNED: | 12/10/2015 |
| | 1 |

Total Attachments: 2

PATENT REEL: 037261 FRAME: 0032 source=13316_2604001_Assignment#page1.tif source=13316_2604001_Assignment#page2.tif

> PATENT REEL: 037261 FRAME: 0033

ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned hereby sell, assign, and transfer to Apple Inc., a corporation of the state of California, having a principal place of business at 1 Infinite Loop, Cupertino, California, 95014-2084 ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions and discoveries that are disclosed in the United States Patent Application entitled:

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the specification of which is attached hereto unless the following is entered:

| Filed on | as United States Application Number or PCT International Application Number | and was amended on (if applicable) |
|----------|--|---------------------------------------|
| | | |

and in and to said United States Patent Application and all provisional, divisional, continuing, substitute, renewal, reissue, and other patent applications that have been or shall be filed in the United States or any foreign country on any of said inventions and discoveries; and in and to all original and reissued patents that have been or shall be issued in the United States or any foreign country on said inventions and discoveries; and in and to all rights of priority resulting from the filing of said United States Patent Application;

agree that said Assignee may apply for and receive a patent or patents for said inventions and discoveries in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all provisional, divisional, continuing, substitute, renewal, reissue, and other patent applications on any and all said inventions and discoveries; execute all rightful paths, 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 and discoveries and the history thereof, and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said inventions and discoveries and for vesting title to said inventions and discoveries, and all applications for patents and all patents on said inventions and discoveries, in said Assignee, its successors, assigns, and legal representatives; and

coveriant 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.

| Inventor: Yeping Su | |
|--------------------------|---|
| Inventor Signature | Date |
| | 12/09/2015 |
| Inventor: Chris Y. Chung | |
| | M - 2 |
| Inventor Signature | Date (2/1/5 |
| | |
| Inventor, Hsi-Jung Wu | |
| Inventor Signature 4// | Date , / |
| | 14/09/200 |
| 7 | *************************************** |

PATENT REEL: 037261 FRAME: 0034

PATENT Docket No. 13316/2604001

| Inventor: Xiaosong Zhou | |
|-----------------------------|-----------------|
| Inventor Signature | Date 13/09/15 |
| Inventor: Jiefu Zhai | |
| Inventor Signature | Date /2/09/30/5 |

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RECORDED: 12/10/2015