502813196 05/16/2014

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2859790

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MARK HAHNENBERG	05/15/2014

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:	14280377

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	4860P19843US3
NAME OF SUBMITTER:	KEVIN G. SHAO
SIGNATURE:	/Kevin G. Shao/
DATE SIGNED:	05/16/2014

Total Attachments: 2

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PATENT 502813196 REEL: 032918 FRAME: 0139

ASSIGNMENT OF PATENT APPLICATION	Attorney Docket No.: 4860P19843US3
For good and valuable consideration, the receipt and	sufficiency of which is hereby
acknowledged, I/we, the undersigned, Mark Hahnenberg	
hereby sell, assign, and transfer to Apple Inc.	· · · · · · · · · · · · · · · · · · ·
a <u>corporation</u> of <u>Cali</u> (Type of Assignee: e.g., corporation, company, partnership, university,	
having a principal place of business at 1 Infinite Loop, C	
("Assignee"), and its successors, assigns, and legal represent the United States and all foreign countries, in and to any and disclosed in the application (provisional or non-provisional) non-provisional application may have a declaration executed concurrently herewith and which application (provisional or	all inventions or improvements that are for the United States patent which for the by the undersigned prior hereto or
SIZE DEPENDENT TYPE IN ACCESSING D OBJECTS	YNAMICALLY TYPED ARRAY
said patent application also identified as follows (when know	wn):
[I/we hereby authorize an attorney or agent for said a number and filing date of said patent application wh	
United States Patent Application Number <u>14/280,377</u>	filed5/16/2014,
and in and to said application (provisional or non-provisional provisional applications, utility applications, design applications, continued prosecution applications, continuation applications, renewal applications, reissue applications, reex applications that have been or shall be filed in the United Stainventions or improvements; and in and to all original patent certificates, and extensions, that have been or shall be issued countries on said inventions or improvements; and in and to	ions, divisional applications, continuation on-in-part applications, substitute aminations, extensions, and all other patent ates and all foreign countries on any of said ts, reissued patents, reexamination I in the United States and all foreign

agree that said Assignee may apply for and receive a patent or patents for said inventions or improvements 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 applications, non-provisional applications, utility applications, design applications, divisional applications, continuation applications, continued prosecution applications, continuation-in-part applications, substitute applications, renewal applications, reissue applications, reexaminations, extensions, and all other patent applications on any and all said inventions or improvements; execute all rightful oaths, 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 or improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or representatives in securing and maintaining proper patent protection for said inventions or improvements and for vesting title to said inventions or

filing of said United States application;

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improvements, and all applications for patents and all patents on said inventions or improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant 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.

Each Inventor: Please Sign and Date Below:

5/15 . 20/4 Date

Name:

Assignment Document Return Address:
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
1279 Oakmead Parkway
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Rev. 1/08/2010