504915848 05/15/2018

PATENT ASSIGNMENT COVER SHEET

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

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------|----------------|
| OLIVIER BONNET | 05/11/2018 |

RECEIVING PARTY DATA

| Name: | APPLE INC. |
|-----------------|--------------------|
| Street Address: | ONE APPLE PARK WAY |
| City: | CUPERTINO |
| State/Country: | CALIFORNIA |
| Postal Code: | 95014 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 15907448 |

CORRESPONDENCE DATA

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| ATTORNEY DOCKET NUMBER: | 4860.P33838US1 |
|-------------------------|------------------------------------|
| NAME OF SUBMITTER: | JAMES C. SCHELLER, REG. NO. 31,195 |
| SIGNATURE: | /James C. Scheller/ |
| DATE SIGNED: | 05/15/2018 |

Total Attachments: 2

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PATENT 504915848 REEL: 045811 FRAME: 0285

| ASSIG | NMENT OF PATENT APPLI | CATION | Attorney Do | ocket No.: 04860.P33838 | US1 |
|--|---|--|---|--|-----------------|
| | For good and valuable consideration | | • | | |
| acknov | wledged, I, the undersigned, <u>Sean I</u> | P. Devlin, Willia | m E. Anderso | n, Daniel M. Zitter, | |
| | ndre A. Aybes, Olivier Bonnet, Yanni | | | | _, |
| hereby | sell, assign, and transfer to Apple | Inc. | | | _, |
| a <u>cor</u> (Type o | poration f Assignee: e.g., corporation, company, part | of <u>Cali</u> nership, university, | fornia etc.) | | , |
| having | a principal place of business at | One Apple Park V | Way, Cupertin | io, CA, 95014 | ., |
| the Un disclos non-pr | gnee"), and its successors, assigns, an ited States and all foreign countries, ited in the application (provisional or povisional application may have a decrently herewith and which application. CLOUD | in and to any and non-provisional) laration executed | l all invention for the United by the under non-provisio | s or improvements that d States patent which for signed prior hereto or | are |
| said pa | tent application also identified as fol | lows (when know | wn): | | |
| | [I/we hereby authorize an attorney on number and filing date of said pater | | | nsert below the applicat | ion |
| United | States Patent Application Number _ | 15/907,448 | filed_ | February 28, 2018, | |
| provisi applica applica applica | and to said application (provisional conal applications, utility applications ations, continued prosecution applications, renewal applications, reissue autions that have been or shall be filed one or improvements; and in and to a | s, design applicate tions, continuation pplications, reex in the United St | ions, division on-in-part app taminations, e ates and all fo | al applications, continu lications, substitute extensions, and all other reign countries on any o | ation patent |

inventions or improvements; and in and to all original patents, reissued patents, reexamination certificates, and extensions, that have been or shall be issued in the United States and all foreign countries on said inventions or improvements; and in and to all rights of priority resulting from the filing of said United States application;

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

04860.P33838US1 -1-Rev. 1/08/2010 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 Assignce, 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:

Date Name: Sean P. Devlin

Date Name: William E. Anderson

Date Name: Daniel M. Zitter

Date Name: Alexandre A. Aybes

May 11th, 20.18 Name: Offiver Bonnet

, 20 Name: Yannick Sierra

Assignment Document Return Address: WOMBLE BOND DICKINSON (US) LLP Attn: IP Docketing P.O. Box 7037 Atlanta, GA 30357-0037

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