

## PATENT ASSIGNMENT COVER SHEET

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| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT         |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT             |
| <b>CONVEYING PARTY DATA</b>   |                        |
|   |                        |
| <b>Name</b>   | <b>Execution Date</b>  |
| YI-HENG SEN   | 05/23/2019             |
| ALEX M. LEE   | 05/23/2019             |
| ALEX J. SPELTZ  | 05/23/2019             |
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| <b>PROPERTY NUMBERS Total: 1</b>  |                        |
| <b>Property Type</b>  | <b>Number</b>          |
| <b>Application Number:</b>  | 16426614               |
| <b>CORRESPONDENCE DATA</b>  |                        |
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| <b>ATTORNEY DOCKET NUMBER:</b>  | P41509US1 (50346)      |
| <b>NAME OF SUBMITTER:</b>   | CHRISTOPHER F. REGAN   |
| <b>SIGNATURE:</b>   | /CHRISTOPHER F. REGAN/ |
| <b>DATE SIGNED:</b>   | 06/03/2019             |
| <b>Total Attachments: 2</b>   |                        |
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| source=50346assign#page2.tif  |                        |

ASSIGNMENT

WHEREAS, **Yi-Heng SEN; Alex M. LEE; and Alex J. SPELTZ** have made an invention entitled: **HAPTIC ACTUATOR INCLUDING PERMANENT MAGNET WITHIN COIL PASSAGEWAYS WHEN UNPOWERED AND RELATED METHODS**; and have made application for United States Letters Patent therefor, the same having been filed in the United States Patent and Trademark Office; and

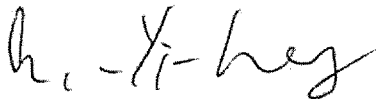
WHEREAS, Apple Inc., a corporation organized and existing under the laws of California and having an office and place of business at One Apple Park Way, Cupertino, California 95014, United States of America, is desirous of acquiring the entire interest in said invention, said United States patent application and in any Letters Patent which may be entitled to the benefit thereof;

NOW, THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) to me paid, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I do hereby sell, assign, and transfer unto the said Apple Inc., its successors, assigns and legal representatives, all right, title and interest in and to said invention and any improvements thereon for all countries of the world, and in and to said United States patent application, including any nonprovisional patent application claiming the benefit thereof and any continuations and divisions thereof, and any substitute applications therefor, and any patents which may issue thereon, and any reissues of the same, and including the right to claim priority under the International Convention based on said provisional patent application; and all right, title and interest in and to every patent application filed or to be filed on said invention in any other country, including renewals, revivals, continuations and divisions thereof, and any substitute applications therefor, and any and all patents which may issue thereon, and any reissues and extensions of the same; I hereby authorize and request

competent authorities to grant and issue any and all patents on said invention to Apple Inc., as the assignee of the entire interest therein; and I further agree to execute upon request of the assignee such additional documents, if any, as are necessary and proper to secure patent protection on said invention throughout all countries of the world, and to otherwise give full effect to and perfect the rights of the assignee under this Assignment.

IN TESTIMONY WHEREOF, I have hereunto signed my name on the date indicated hereinafter:

05/23/2019  
Dated (mm/dd/yyyy)

  
Yi-Heng SEN

05/23/2019  
Dated (mm/dd/yyyy)

  
Alex M. LEE

05/23/2019  
Dated (mm/dd/yyyy)

  
Alex J. SPELTZ