

## 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>
TINGJUN XU	06/10/2019
GUOCHENG SHAO	06/10/2019
LEI YU	06/15/2019
OVE LYNGNES	06/10/2019
SUNGGU KANG	06/11/2019
TIANBO SUN	06/09/2019
XIANWEI ZHAO	06/12/2019
XIAOYONG FU	06/11/2019
XINGXING CAI	06/10/2019
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<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95014
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16450813
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
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<b>ATTORNEY DOCKET NUMBER:</b>	P37750US1
<b>NAME OF SUBMITTER:</b>	KIERSTIN FOWLER

<b>SIGNATURE:</b>	/Kierstin Fowler/
<b>DATE SIGNED:</b>	06/25/2019
<b>Total Attachments: 11</b> source=P37750US1_Assignments#page1.tif source=P37750US1_Assignments#page2.tif source=P37750US1_Assignments#page3.tif source=P37750US1_Assignments#page4.tif source=P37750US1_Assignments#page5.tif source=P37750US1_Assignments#page6.tif source=P37750US1_Assignments#page7.tif source=P37750US1_Assignments#page8.tif source=P37750US1_Assignments#page9.tif source=P37750US1_Assignments#page10.tif source=P37750US1_Assignments#page11.tif	

A S S I G N M E N T

WHEREAS, We, Tingjun Xu, Guocheng Shao, Lei Yu, Ove Lyngnes, Sunggu Kang, Tianbo Sun, Xianwei Zhao, Xiaoyong Fu, and Xingxing Cai, residing respectively in San Jose, California, Campbell, California, Shanghai, China, Carmel Valley, California, San Jose, California, Sunnyvale, California, Fremont, California, Cupertino, California, and Santa Clara, California, have made an invention entitled:

## ELECTRONIC DEVICES WITH LIGHT SENSOR WAVEGUIDES

and

(1) are about to make an application for United States Letters Patent therefor, the same having been executed by us on even date herewith

OR

(2) have made an application for United States Letters Patent therefor, the same having been filed on (\_\_\_\_\_) under Application No. (\_\_\_\_\_), in connection with which we hereby authorize and request the assignee's attorneys associated with Customer Number to insert within the foregoing parentheses the filing date and Application No. of said application when known; and

WHEREAS, APPLE INC., a corporation organized and existing under the laws of the State of California and having an address of One Apple Park Way, Cupertino, California 95014, is desirous of acquiring the entire interest in said invention, said United States patent

application and in any Letters Patent which may issue thereon;


NOW, THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) paid, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we 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 continuations, continuations-in-part and divisions thereof, and any substitute applications therefor, and including the right to claim priority under the International Convention based on said patent application, and any patent which may issue thereon, and any reissues of the same; 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;

and we hereby authorize and request competent authorities to grant and issue any and all patents on said invention to the said APPLE INC. as the assignee of the entire interest therein; and we 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.

P37750US1

IN TESTIMONY WHEREOF, we have hereunto signed our names on the dates indicated hereinafter.

06/10/2019  
Date

  
Tingjun Xu

P37750US1

IN TESTIMONY WHEREOF, we have hereunto signed our names on the dates indicated hereinafter.

2d9/06/10

Date



Guocheng Shao

P37750U51

IN TESTIMONY WHEREOF, we have hereunto signed our  
names on the dates indicated hereinafter.

6/15/19

Date

Lei Yu

P37750US1

IN TESTIMONY WHEREOF, we have hereunto signed our  
names on the dates indicated hereinafter.

6/10/2019  
Date

Ove Lyngnes  
Ove Lyngnes



P37750US1

IN TESTIMONY WHEREOF, we have hereunto signed our names on the dates indicated hereinafter.

6/11/2018  
Date

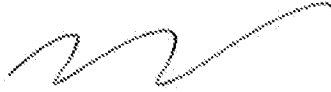
Ag King  
Sunggu Kang

P377500S1

IN TESTIMONY WHEREOF, we have hereunto signed our  
names on the dates indicated hereinafter.

2019-06-09

Date



Tianbo Sun

IN TESTIMONY WHEREOF, we have hereunto signed our names on the dates indicated hereinafter.

06/12/2019  
Date

Xianwei Zhao

P37750US1

IN TESTIMONY WHEREOF, we have hereunto signed our names on the dates indicated hereinafter.

06/11/2019  
Date

Xiaoyang Fu  
Xiaoyang Fu

P37750US1

IN TESTIMONY WHEREOF, we have hereunto signed our  
names on the dates indicated hereinafter.

6/10/2019

Date



Xingxing Cai