

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
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EPAS ID: PAT5689581

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the SPELLING OF THE FIRST ASSIGNOR'S FIRST NAME FROM "HUNG SHEN" TO CORRECTLY BE "HUNG SHENG" previously recorded on Reel 041303 Frame 0198. Assignor(s) hereby confirms the ASSIGNMENT.

**CONVEYING PARTY DATA**

Name	Execution Date
HUNG SHENG LIN	08/16/2019
JIAYI JIN	02/09/2017
WEI H. YAO	01/27/2017
HYUNWOO NHO	01/27/2017
GUANGMAO XING	01/27/2017
WEIJUN YAO	01/27/2017
XIAOFENG WANG	01/05/2017
YAFEI BI	01/27/2017
HAIFENG LI	02/09/2017

**RECEIVING PARTY DATA**

<b>Name:</b>	APPLE INC.
<b>Street Address:</b>	ONE APPLE PARK WAY
<b>City:</b>	CUPERTINO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	95014

**PROPERTY NUMBERS Total: 1**

Property Type	Number
<b>Application Number:</b>	15199315

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**Email:** docket@fyiplaw.com, osterhaus@fyiplaw.com, sorenson@fyiplaw.com

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**Address Line 2:** FLETCHER YODER

**PATENT**

<b>Address Line 4:</b>	HOUSTON, TEXAS 77269-2289
<b>ATTORNEY DOCKET NUMBER:</b>	P29431US1 (APPL:0630)
<b>NAME OF SUBMITTER:</b>	MATTHEW G. OSTERHAUS
<b>SIGNATURE:</b>	/Matthew G. Osterhaus/
<b>DATE SIGNED:</b>	08/27/2019
<b>Total Attachments: 13</b> source=P29431US1_APPL0630_CorrectiveAssignment#page1.tif source=P29431US1_APPL0630_CorrectiveAssignment#page2.tif source=P29431US1_APPL0630_CorrectiveAssignment#page3.tif source=P29431US1_APPL0630_CorrectiveAssignment#page4.tif source=P29431US1_APPL0630_CorrectiveAssignment#page5.tif source=P29431US1_APPL0630_CorrectiveAssignment#page6.tif source=P29431US1_APPL0630_CorrectiveAssignment#page7.tif source=P29431US1_APPL0630_CorrectiveAssignment#page8.tif source=P29431US1_APPL0630_CorrectiveAssignment#page9.tif source=P29431US1_APPL0630_CorrectiveAssignment#page10.tif source=P29431US1_APPL0630_CorrectiveAssignment#page11.tif source=P29431US1_APPL0630_CorrectiveAssignment#page12.tif source=P29431US1_APPL0630_CorrectiveAssignment#page13.tif	



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**PATENT ASSIGNMENT COVER SHEET**

Electronic Version v1.1  
Stylesheet Version v1.2

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT																				
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT																				
<b>CONVEYING PARTY DATA</b>																					
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>HUNG SHEN LIN SHENG</td> <td>01/27/2017 08/16/2019</td> </tr> <tr> <td>JIAYI JIN</td> <td>02/09/2017</td> </tr> <tr> <td>WEI H. YAO</td> <td>01/27/2017</td> </tr> <tr> <td>HYUNWOO NHO</td> <td>01/27/2017</td> </tr> <tr> <td>GUANGMAO XING</td> <td>01/27/2017</td> </tr> <tr> <td>WEIJUN YAO</td> <td>01/27/2017</td> </tr> <tr> <td>XIAOFENG WANG</td> <td>01/05/2017</td> </tr> <tr> <td>YAFEI BI</td> <td>01/27/2017</td> </tr> <tr> <td>HAIFENG LI</td> <td>02/09/2017</td> </tr> </tbody> </table>		Name	Execution Date	HUNG SHEN LIN SHENG	01/27/2017 08/16/2019	JIAYI JIN	02/09/2017	WEI H. YAO	01/27/2017	HYUNWOO NHO	01/27/2017	GUANGMAO XING	01/27/2017	WEIJUN YAO	01/27/2017	XIAOFENG WANG	01/05/2017	YAFEI BI	01/27/2017	HAIFENG LI	02/09/2017
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<table border="1"> <tr> <td><b>Name:</b></td> <td>APPLE INC.</td> </tr> <tr> <td><b>Street Address:</b></td> <td>1 Infinite Loop</td> </tr> <tr> <td><b>City:</b></td> <td>Cupertino</td> </tr> <tr> <td><b>State/Country:</b></td> <td>CALIFORNIA</td> </tr> <tr> <td><b>Postal Code:</b></td> <td>95014</td> </tr> </table>		<b>Name:</b>	APPLE INC.	<b>Street Address:</b>	1 Infinite Loop	<b>City:</b>	Cupertino	<b>State/Country:</b>	CALIFORNIA	<b>Postal Code:</b>	95014										
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**Correspondent Name:** MICHAEL G. FLETCHER  
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**ATTORNEY DOCKET NUMBER:**

P29431US1 / APPL:0630

**NAME OF SUBMITTER:**

MICHAEL G. FLETCHER

**Signature:**

/Michael G. Fletcher/

**Date:**

02/20/2017

**Total Attachments: 9**

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**RECEIPT INFORMATION**

**EPAS ID:** PAT4282375  
**Receipt Date:** 02/20/2017

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**PATENT**

**ASSIGNMENT**

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, does hereby:

SELL, ASSIGN AND TRANSFER to **Apple Inc.** (the "Assignee"), a corporation of the State of California, having a place of business at **1 Infinite Loop, Cupertino, CA 95014**, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the application for United States Letters Patent, which is entitled "**NOISE REDUCTION IN LED SENSING CIRCUIT FOR ELECTRONIC DISPLAY**," and which may be further identified below, such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States, including all provisional and non-provisional applications, and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST that any attorney associated with PTO Customer No. 73576 may delete, insert, or alter any information identifying this application, or any related application, below after execution of this assignment;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will (1) execute all provisional, non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers; (3) communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; (4) cooperate with the Assignee in any interference, opposition, dispute, or litigation involving any of the applications or patents for such improvements; and (5) generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

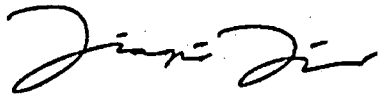
<u>Additional Application Information</u>	
U.S. Provisional Application Serial No. _____	filed on _____
U.S. Non-Provisional Application Serial No. <u>15/199,315</u>	filed on <u>June 30, 2016</u>
International Application Serial No. _____	filed on _____

**Inventor 1:**

(Signature): Hung Sheng Lin  
Name: **Hung Sheng Lin**

Date: 8/16/2019

Inventor 2:

(Signature):   
Name: Jiayi Jin

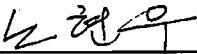
Date: 2/9/2017

Inventor 3:

(Signature):  \_\_\_\_\_  
Name: Wei H. Yao

Date: 1-27-2017

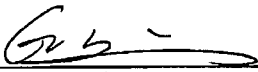
Inventor 4:

(Signature):   
Name: Hyunwoo Nho

Date: 1/27/2017



**Inventor 5:**

(Signature):   
Name: **Guangmao Xing**

Date: 1/27/2017

**Inventor 6:**

(Signature):   
Name: Weijun Yao

Date: 1/27/2017

Inventor 7:

(Signature):

  
Name: Xiaofeng Wang

Date:

1/5/2017

**Inventor 8:**

(Signature): YFB  
Name: Yafei Bi

Date: 01/27/2007

Inventor 9:

(Signature):   
Name: Halfeng Li

Date: 02/09/2017