

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5461476

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
RONG LIU	02/22/2019
EDWARD H. KANG	02/22/2019
JUN QI	02/28/2019
MOOKYUNG SON	02/28/2019
PEE KIAM SO	02/28/2019
VICTOR H. YIN	02/24/2019
WEI LV	02/26/2019
WENYONG ZHU	02/27/2019
ZHENYUE LUO	02/26/2019
XINYU ZHU	03/05/2019
LING HAN	02/25/2019
HUNG SHENG LIN	03/02/2019

**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
Application Number:	16294727

**CORRESPONDENCE DATA**

Fax Number:

*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.*

Email: esemo@treyzlawgroup.com  
 Correspondent Name: EMMA SEMO  
 Address Line 1: 15279 N. SCOTTSDALE RD  
 Address Line 4: SCOTTSDALE, ARIZONA 85254

<b>ATTORNEY DOCKET NUMBER:</b>	P38074US3
<b>NAME OF SUBMITTER:</b>	EMMA SEMO
<b>SIGNATURE:</b>	/Emma Semo/
<b>DATE SIGNED:</b>	04/05/2019

**Total Attachments: 14**

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A S S I G N M E N T

WHEREAS, We, Rong Liu, Edward H. Kang, Jun Qi, Mookyung Son, Pee Khiam So, Victor H. Yin, Wei Lv, Wenyong Zhu, Zhenyue Luo, Xinyu Zhu, Ling Han, and Hung Sheng Lin, residing respectively in Sunnyvale, California, San Francisco, California, San Jose, California, Cupertino, California, San Jose, California, Cupertino, California, San Jose, California, San Jose, California, Santa Clara, California, Sunnyvale, California, Cupertino, California, and San Jose, California, have made an invention entitled:

LIGHT-EMITTING DIODES IN DISPLAYS WITH DIRECT-LIT BACKLIGHT  
UNITS

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 65015 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;

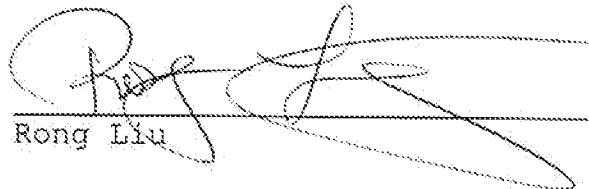
NOW, THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) paid, and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we do hereby sell, assign and transfer unto the said APPLE INC., its successors, assigns and legal 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.

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

2/22/19  
Date

  
Rong Liu

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Date

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Edward H. Kang

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Jun Qi

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Wenyong Zhu

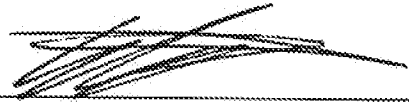
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Date

\_\_\_\_\_  
Zhenyue Luo

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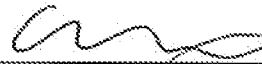
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Zhenyue Luo

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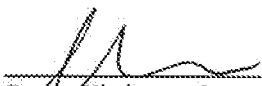
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Date Zhenyue Luo

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Date Victor H. Yin

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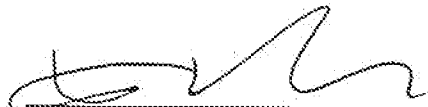
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Date	Wei Lv
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Date	Wenyong Zhu
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01/26/2019	<i>Zhenyue Luo</i>
Date	Zhenyue Luo

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03/05/2019  
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Xinyu Zhu

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Hung Sheng Lin

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