504942786 06/04/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHIN-WEI LIN	03/05/2018
SHYUAN YANG	02/27/2018
CHUANG QIAN	03/02/2018
ABBAS JAMSHIDI ROUDBARI	02/27/2018
TING-KUO CHANG	03/01/2018

RECEIVING PARTY DATA

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Street Address:	1 APPLE PARK WAY
City:	CUPERTINO
State/Country:	CALIFORNIA
Postal Code:	95014

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15996366

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NAME OF SUBMITTER:	JILLIAN BAUMAN
SIGNATURE:	/Jillian Bauman/
DATE SIGNED:	06/04/2018

Total Attachments: 3

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PATENT REEL: 045977 FRAME: 0531

A S S I G N M E N T

WHEREAS, We, Chin-Wei Lin, Shyuan Yang, Chuang Qian, Abbas Jamshidi Roudbari, and Ting-Kuo Chang, residing respectively in San Jose, California, Burlingame, California, Santa Clara, California, Sunnyvale, California, and San Jose, California, have made an invention entitled:

ELECTRONIC DEVICES WITH LOW REFRESH RATE DISPLAY PIXELS 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	е
assignee's attorneys associated with Customer Number 650	15
to insert within the foregoing parentheses the filing da	te
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 1 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.

P35625US1

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

3/5 2018 Date

2/24/2018

3/2/2018 Date

02/13/2018 Date

03/01/xv/8

Chin-Well Lin

Shyuan Yang

Chuang Qian

Abbas Jamshidi Aoudbari

Ting-Woo Chang