

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT6071743

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

**CONVEYING PARTY DATA**

Name	Execution Date
SYNAPTICS INCORPORATED	04/16/2020

**RECEIVING PARTY DATA**

<b>Name:</b>	CREATIVE LEGEND SEMICONDUCTOR (HONG KONG) LIMITED
<b>Street Address:</b>	2004B 20/F TOWER 5 CHINA HONG KONG CITY
<b>Internal Address:</b>	33 CANTON ROAD TSIMSHATSUI, KOWLOON
<b>City:</b>	HONG KONG
<b>State/Country:</b>	CHINA

**PROPERTY NUMBERS Total: 24**

Property Type	Number
Application Number:	13434713
Application Number:	13528324
Application Number:	13722309
Application Number:	13828076
Application Number:	13931529
Application Number:	14033068
Application Number:	15436569
Application Number:	14137481
Application Number:	14318837
Application Number:	14231445
Application Number:	14503068
Application Number:	14319728
Application Number:	15085889
Application Number:	14788529
Application Number:	14815518
Application Number:	14871448
Application Number:	15199569
Application Number:	15892161
Application Number:	15449875
Application Number:	15476040

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Property Type	Number
Application Number:	15629493
Application Number:	15687841
Application Number:	15683390
Application Number:	16755447

#### CORRESPONDENCE DATA

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*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.*

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**ATTORNEY DOCKET NUMBER:** CLHK-5-55137

**NAME OF SUBMITTER:** JAMES Y. GO

**SIGNATURE:** /James Y. Go/

**DATE SIGNED:** 04/21/2020

#### Total Attachments: 7

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## PATENT ASSIGNMENT AGREEMENT

This PATENT ASSIGNMENT AGREEMENT (this “Agreement”) is made and entered into as of April 16, 2020 (the “Effective Date”), by and between Synaptics Incorporated (“Assignor”), a company incorporated and currently existing under the laws of the State of Delaware, whose registered office is at 1251 McKay Drive, San Jose, California 95131, U.S., and Creative Legend Semiconductor (Hong Kong) Limited (“Assignee”), a company incorporated and currently existing under the laws of Hong Kong, whose registered office is at 2004B, 20/F Tower 5 China Hong Kong City, 33 Canton Road, TsimShaTsui, Kowloon, Hong Kong.

## RECITALS

WHEREAS, pursuant to certain Asset Purchase Agreement, dated as of December 18, 2019, by and between Assignor and Beijing OmniVision Technologies Co. Ltd. (“Beijing OmniVision”) (as successor in interest to Creative Legend Investments Ltd. (“Creative Legend”) pursuant to that certain Assignment and Assumption Agreement dated as of April 15, 2020 by and among Assignor, Beijing OmniVision and Creative Legend), as amended by that certain First Amendment to Asset Purchase Agreement, dated as of March 3, 2020, and that certain Second Amendment to Asset Purchase Agreement, dated as of April 15, 2020 (the “Asset Purchase Agreement”), Assignor agreed to assign to Assignee all of Assignor’s and its Affiliates’ right title and interest in and to the Assigned Patents (defined below).

WHEREAS, Assignee desires to acquire the entire right, title and interest in and to the Assigned Patents.

NOW, THEREFORE, in consideration of the mutual promises set forth in this Agreement and the Asset Purchase Agreement and other good and valuable consideration, the adequacy and receipt of which are hereby acknowledged, the parties hereto hereby agree as follows:

## ASSIGNMENT

1. **DEFINITION.** As used herein:

(a) “Patents” means all patents, industrial and utility models, registered industrial designs, design patents, certificates of invention, and other indicia of invention ownership issued or granted by any governmental authority; applications for any of the foregoing, including provisional, utility, design, divisional, and continuation (in whole or in part) applications; extensions, reissues, re-examinations, renewals, or other post-grant forms of any of the foregoing; equivalents or counterparts of any of the foregoing; and moral and economic rights of inventors in any of the foregoing.

(b) “Assigned Patents” means (i) the Patents listed on Attachment A to this Agreement; (ii) any Patent that claims priority from any of the foregoing Patents; (iii) any patent that is a continuation, continuation-in-part (but only to the extent of any claims therein that are entitled to claim priority from any of the foregoing Patents), divisional, reissue or re-examination, of any of the foregoing Patents by a terminal disclaimer; and (iv) any foreign counterpart of any of the foregoing Patents.

2. **ASSIGNMENT.** Assignor hereby assigns and sells to Assignee all of Assignor’s rights, title and interest in and to the Assigned Patents throughout the world. This assignment includes, without limitation, the right (but not the obligation) to register, prosecute, maintain or record any of such Assigned Patents with any governmental authority and the right to claims (including claims for past infringement or misappropriation), demands and causes of action exclusively related to the Assigned Patents, the same to be held and enjoyed by Assignee and its successors and assigns entirely as if the same would have been held and enjoyed by Assignor had this sale and assignment not been made. Assignor hereby authorizes the respective patent office or

governmental authority in each jurisdiction to issue any and all Patents or other governmental grants that may be granted upon any of the foregoing in the name of Assignee, as the assignee to the entire interest therein.

3. **MISCELLANEOUS**. If any provision of this Agreement shall be adjudged by any court of competent jurisdiction to be unenforceable or invalid, that provision shall be limited or eliminated to the minimum extent necessary so that this Agreement shall otherwise remain in full force and effect and enforceable. This Agreement shall be deemed to have been made in and shall be construed pursuant to the laws of the State of Delaware without regard to conflicts of laws provisions thereof.

**[SIGNATURE PAGES FOLLOW]**

**IN WITNESS WHEREOF**, the parties hereto have executed this Agreement as of the Effective Date.

**SYNAPTICS INCORPORATED**

By: \_\_\_\_\_

Name: John McFarland

Title: Senior Vice President, General Counsel and  
Secretary

[Signature Page to U.S. Patent Assignment Agreement]

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the Effective Date.

CREATIVE LEGEND SEMICONDUCTOR  
(HONG KONG) LIMITED

By: 

Name: Anson Hoi-Fung Chan

Title: Authorized Signatory

[Signature Page to U.S. Patent Assignment Agreement]

**ATTACHMENT A**

**PATENTS**

[see attached]

Owner	Patent Application Title	Country	Application Number	Filed Date	Patent No.	Grant Date	Status
Synaptics Incorporated	Capacitive touch screen interference detection and operation	United States of America	13/434,713	2012-03-29	9,952,720	2018-04-24	Granted
Synaptics Incorporated	High voltage driver using medium voltage devices	United States of America	13/528,324	2012-06-20	9,252,651	2016-02-02	Granted
Synaptics Incorporated	Compensation for air gap in an input device	United States of America	13/722,309	2012-12-20	8,866,796	2014-10-21	Granted
Synaptics Incorporated	Black image insertion for capacitive sensing	United States of America	13/828,076	2013-03-14	9,223,449	2015-12-29	Granted
Synaptics Incorporated	Synchronizing a switched power supply	United States of America	13/931,529	2013-06-28	9,304,625	2016-04-05	Granted
Synaptics Incorporated	Device and method for synchronizing display and touch controller with host polling	United States of America	14/033,068	2013-09-20	9,601,085	2017-03-21	Granted
Synaptics Incorporated	Device and method for synchronizing display and touch controller with host polling	United States of America	15/436,569	2017-02-17	9,880,691	2018-01-30	Granted
Synaptics Incorporated	Transcapacitive sensor having gate lines used for both display updating and capacitive sensing	United States of America	14/137,481	2013-12-20	9,501,184	2016-11-22	Granted
Synaptics Incorporated	Source driver touch transmitter in parallel with display drive	United States of America	14/318,837	2014-06-30	9,298,309	2016-03-29	Granted
Synaptics Incorporated	Serrated input sensing intervals	United States of America	14/231,445	2014-03-31	9,582,099	2017-02-28	Granted
Synaptics Incorporated	Frequency shifting for simultaneous active matrix display update and in-cell capacitive touch	United States of America	14/503,068	2014-09-30	9,442,615	2016-09-13	Granted
Synaptics incorporated	Input sensing using a gate select line of a display device	United States of America	14/319,728	2014-06-30	9,448,675	2016-09-20	Granted
Synaptics Incorporated	Temperature compensated offset cancellation for high-speed amplifiers	United States of America	15/085,889	2016-03-30	9,780,736	2017-10-03	Granted



Owner	Patent Application Title	Country	Application Number	Filed Date	Patent No.	Grant Date	Status
Synaptics Incorporated	Current-mode bandgap reference with proportional to absolute temperature current and zero temperature coefficient current generation	United States of America	14/788,529	2015-06-30	9,817,428	2017-11-14	Granted
Synaptics Incorporated	Adaptive low power vcom mode	United States of America	14/815,518	2015-07-31	9,830,032	2017-11-28	Granted
Synaptics Incorporated	Active canceling of display noise in simultaneous display and touch sensing using an impulse response	United States of America	14/871,448	2015-09-30	10,061,437	2018-08-28	Granted
Synaptics Incorporated	Hybrid In-Cell Sensor Topology	United States of America	15/199,569	2016-06-30	10,540,043	2020-01-21	Granted
Synaptics Incorporated	Active avoidance of display noise in simultaneous touch and display	United States of America	15/892,161	2018-02-08	10,627,957	2020-04-21	Granted
Synaptics Incorporated	Coefficient generation for digital filters	United States of America	15/449,875	2017-03-03	10,122,346	2018-11-06	Granted
Synaptics Incorporated	Led screen noise sensing for discreet capacitive sensors	United States of America	15/476,040	2017-03-31	9,946,404	2018-04-17	Granted
Synaptics Incorporated	Reducing connections from a sensing module	United States of America	15/629,493	2017-06-21	10,191,584	2019-01-29	Granted
Synaptics Incorporated	CDM excitation on full in-cell matrix sensor array with reduced background capacitance	United States of America	15/687,841	2017-08-28	10,466,848	2019-11-05	Granted
Synaptics Incorporated	Split reservoir capacitor architecture for a charge pump	United States of America	15/683,390	2017-08-22	10,090,758	2018-10-02	Granted
Synaptics Incorporated	Display module, voltage control method, and display driver	United States of America	16/755,447	2020-04-10			Application
Synaptics Incorporated	Display device, method for controlling voltage in display panel, and display driver	Patent Cooperation Treaty	PCT/IB2018/001273	2018-10-18			Published
Synaptics Incorporated	DISPLAY MODULE, VOLTAGE CONTROL METHOD, AND DISPLAY DRIVER	European Patent	18883602.7	2018-10-18			Application

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RECORDED: 04/21/2020

REEL: 052457 FRAME: 0748