

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4652713

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MICHAEL GREGORY BROWN	05/10/2012
YVES BERTIC PMP	05/04/2012
SCOTT W. DUNCAN	05/04/2012
HONG LU	05/09/2012
RAVI RAJAN	06/26/2012
JOHN WOODHOUSE	05/04/2012
FENG YUN	06/25/2012
HAO ZHU	05/11/2012
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	LUMINUS DEVICES, INC.
<b>Street Address:</b>	175 NEW BOSTON STREET
<b>City:</b>	WOBURN
<b>State/Country:</b>	MASSACHUSETTS
<b>Postal Code:</b>	01801
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15604095
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(617)646-8646
<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>	
<b>Phone:</b>	617.646.8000
<b>Email:</b>	patents_robw@wolfgreenfield.com
<b>Correspondent Name:</b>	WOLF, GREENFIELD & SACKS, P.C.
<b>Address Line 1:</b>	600 ATLANTIC AVENUE
<b>Address Line 4:</b>	BOSTON, MASSACHUSETTS 02210-2206
<b>ATTORNEY DOCKET NUMBER:</b>	L0655.70115US03
<b>NAME OF SUBMITTER:</b>	MELANIE CHIOUSANO
<b>SIGNATURE:</b>	/Melanie Chiusano/

<b>DATE SIGNED:</b>	10/23/2017
<b>Total Attachments: 9</b> source=L065570115US03-ASSN-RHW#page1.tif source=L065570115US03-ASSN-RHW#page2.tif source=L065570115US03-ASSN-RHW#page3.tif source=L065570115US03-ASSN-RHW#page4.tif source=L065570115US03-ASSN-RHW#page5.tif source=L065570115US03-ASSN-RHW#page6.tif source=L065570115US03-ASSN-RHW#page7.tif source=L065570115US03-ASSN-RHW#page8.tif source=L065570115US03-ASSN-RHW#page9.tif	

## ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, I, the undersigned Assignor, hereby:

1. Sell, assign and transfer to Luminus Devices, Inc., a Delaware Corporation having a place of business at 1100 Technology Park Drive; Billerica, Massachusetts 01821, its successors, assigns and legal representatives, all hereinafter referred to as the Assignee, my entire right, title and interest for the United States and all foreign countries, in and to any and all inventions and designs which are disclosed in the application for United States Letters Patent filed in the United States Patent and Trademark Office on April 16, 2012 under No. 13/447,731, bearing Attorney Docket No. L0655.70115US01, and entitled ELECTRONIC DEVICE CONTACT STRUCTURES, and in and to the application and all corresponding provisional, non-provisional, divisional, continuing, substitute, renewal, reissue and all other applications for Letters Patent, utility models, industrial designs or similar intellectual property rights which have been or shall be filed in the United States, internationally, and in any foreign country, including but not limited to China, Japan and Korea, on any of the inventions; and in and to all original and reissued patents which have been or shall be issued in the United States or any other jurisdiction on the inventions, including the right to apply for patent rights in each foreign country and all rights to priority, including the right to claim priority for China, Japan and Korea;
2. Agree that the Assignee may apply for and receive Letters Patent and utility model and industrial design registrations for the inventions in its own name; and when requested, without charge to but at the expense of the Assignee, I agree to carry out in good faith the intent and purpose of this assignment, by executing all non-provisional, divisional, continuing, substitute, renewal, reissue, and all other patent, utility model and industrial design applications on any and all the inventions, by executing all rightful oaths, assignments, powers of attorney and other papers, by communicating to the Assignee all facts known to me relating to the inventions and the history thereof, and generally by doing everything reasonably possible which the Assignee shall consider desirable for aiding in securing and maintaining proper protection for the inventions and for vesting title to the inventions and all applications for patents and all patents on the inventions, in the Assignee;
3. Request the Director of the United States Patent and Trademark Office to issue the Letters Patent to the Assignee;
4. Authorize and request Wolf, Greenfield & Sacks, P.C. to supply any missing patent/application identification information or correct any errors in the patent/application identification information provided above, whether discovered prior to or after recordation;
5. Covenant with the Assignee that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me; and
6. Appoint Assignee, through its designee, my attorney-in-fact to execute, in my name and on my behalf, any and all documents required to effectuate this Assignment, specifically including, but not limited to, those documents specified above and any necessary corrective assignments.

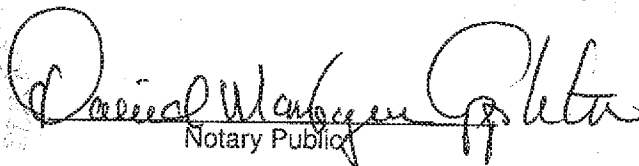
This instrument is executed under seal and signed under the pains and penalties of perjury under the laws of the United States of America.

Date

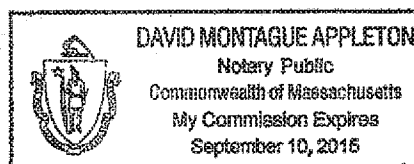
5/10/2012Inventor: Michael Gregory BrownAddress: 33 Jacques Road  
Tyngsboro, Massachusetts 01879Citizenship: USSTATE/Commonwealth of MASSACHUSETTS  
COUNTY OF MIDDLESEX:

On this 10th day of MAY, 2012, before me, the undersigned notary public, personally appeared Michael Gregory Brown, proved to me through satisfactory evidence of identification, which were PERSONALLY KNOWN, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

  
Notary Public

My commission expires:

SEPT. 10, 2015

Date 05/04/12

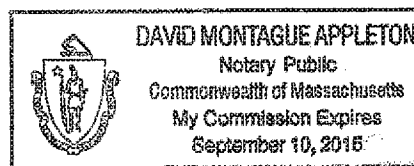
Inventor: Yves Bertic  
Address: 100A Hampshire Street  
Cambridge, Massachusetts 02139  
Citizenship: France

STATE/Commonwealth of MASSACHUSETTS  
COUNTY OF MIDDLESEX:

On this 4th day of MAY, 2012, before me, the undersigned notary public, personally appeared Yves Bertic, proved to me through satisfactory evidence of identification, which were PERSONALLY KNOWN to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

David Montague Appleton  
Notary Public

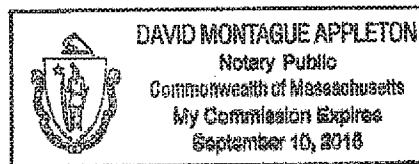
My commission expires: Sept. 10, 2016

Date 5/4/2012Inventor: Scott W. Duncan  
Address: 10 Worthen Place  
Andover, Massachusetts 01810  
Citizenship: USSTATE/Commonwealth of MASSACHUSETTS  
COUNTY OF MIDDLESEX:

On this 4<sup>th</sup> day of MAY, 2012, before me, the undersigned notary public, personally appeared Scott W. Duncan, proved to me through satisfactory evidence of identification, which were PERSONALLY KNOWN, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

David Montague Appleton  
Notary Public

My commission expires: SEPT. 10, 2016

05/09/2012  
Date

Inventor: Hong Lu

Address: 97 Old Sudbury Road

Wayland, Massachusetts 01778

Citizenship: People's Republic of China

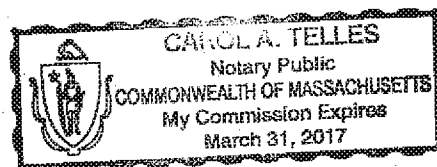
STATE/Commonwealth of Massachusetts  
COUNTY OF Middlesex:

On this 9th day of May, 2012, before me, the undersigned notary public, personally appeared Hong Lu, proved to me through satisfactory evidence of identification, which were driver's license (MA) S10800536, to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

Carol D. Telles  
Notary Public

My commission expires: March 31, 2017



06/26/2012  
Date

[Signature]  
Inventor: Ravi Rajan

Address: 16 Fellsmere Avenue  
Wakefield, Massachusetts 01880

Citizenship: US

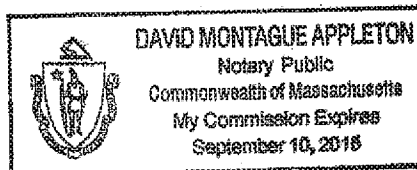
STATE/Commonwealth of MASSACHUSETTS  
COUNTY OF MIDDLESEX:

On this 26<sup>th</sup> day of JUNE, 2012, before me, the undersigned notary public,  
personally appeared Ravi Rajan, proved to me through satisfactory evidence of  
identification, which were PERSONALLY KNOWN  
to be the person who signed the preceding or attached document in my presence and swore or affirmed  
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge  
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

[Signature]  
Notary Public

My commission expires: SEPT 10, 2016





Date

5/4/2012Inventor: John Woodhouse

Address: 2 Bloomfield Street

Lexington, Massachusetts 02421

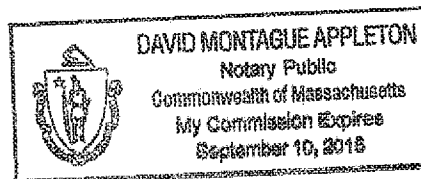
Citizenship: US

STATE/Commonwealth of MASSACHUSETTS  
COUNTY OF MIDDLESEX:

On this 4th day of MAY, 2012, before me, the undersigned notary public, personally appeared John Woodhouse, proved to me through satisfactory evidence of identification, which were PERSONALLY KNOWN to be the person who signed the preceding or attached document in my presence and swore or affirmed to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

David Montague Appleton  
Notary Public

My commission expires: SEPT 10, 2016

6/25/2012  
Date

[Signature]  
Inventor: Feng Yun  
Address: 8 Bolger Lane  
Westford, Massachusetts 01886  
Citizenship: People's Republic of China

STATE/Commonwealth of Mass  
COUNTY OF Middlesex:

On this 25<sup>th</sup> day of June, 2012, before me, the undersigned notary public,  
personally appeared Feng Yun, proved to me through satisfactory evidence of  
identification, which were MA DL

to be the person who signed the preceding or attached document in my presence and swore or affirmed  
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge  
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

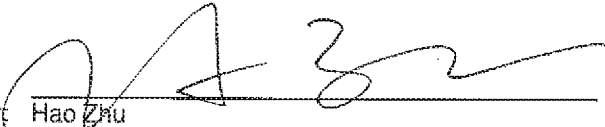
[Signature]  
Notary Public

My commission expires: \_\_\_\_\_



**JANET M. BERUBE**  
Notary Public  
Commonwealth of Massachusetts  
My Commission Expires  
March 7, 2019

05/11/2012  
Date

  
Inventor: Hao Zhu

Address: 120 Merrimack Meadows Lane  
Tewksbury, Massachusetts 01876

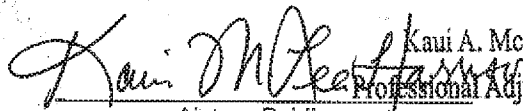
Citizenship: US

STATE/Commonwealth of \_\_\_\_\_  
COUNTY OF \_\_\_\_\_  
People's Republic of China)  
Province of Guangdong )  
Guangzhou ) SS  
Consulate General of the )  
United States of America )

On this \_\_\_\_\_ day of 11 MAY 2012, before me, the undersigned notary public,  
personally appeared Hao Zhu, proved to me through satisfactory evidence of  
identification, which were U.S. passport.

to be the person who signed the preceding or attached document in my presence and swore or affirmed  
to me that the contents of the document are truthful and accurate to the best of (his) (her) knowledge  
and belief and acknowledged to me that (he) (she) signed it voluntarily for its stated purpose.

SEAL

  
Kari A. McLean-Harrison  
Professional Adjudication Specialist  
Notary Public

My commission expires: PRESIDENTIAL COMMISSIONS  
DO NOT EXPIRE