

PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| BOB YI ZHENG | 05/15/2015 |
| YUMIN WANG | 05/15/2015 |
| NANCY J. HALAS | 05/15/2015 |
| PETER NORDLANDER | 05/15/2015 |
| RECEIVING PARTY DATA | |
| Name: | WILLIAM MARSH RICE UNIVERSITY |
| Street Address: | 6100 MAIN STREET |
| City: | HOUSTON |
| State/Country: | TEXAS |
| Postal Code: | 77005-1827 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14701273 |
| CORRESPONDENCE DATA | |
| Fax Number: | (713)228-8778 |
| <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> | |
| Phone: | 7132288600 |
| Email: | dorotte@oshaliang.com |
| Correspondent Name: | ALY Z. DOSSA |
| Address Line 1: | TWO HOUSTON CENTER - SUITE 3500 |
| Address Line 2: | 909 FANNIN ST. |
| Address Line 4: | HOUSTON, TEXAS 77010 |
| ATTORNEY DOCKET NUMBER: | 17500/068002 |
| NAME OF SUBMITTER: | ALEXANDRA DOROTTE |
| SIGNATURE: | /Aly Z. Dossa/ |
| DATE SIGNED: | 10/01/2015 |
| Total Attachments: 3 | |
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| source=Assignment#page2.tif | |

ASSIGNMENT – U. S. RIGHTS ONLY

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned individual(s) (referred to herein as the "INVENTOR(S)") hereby assign, transfer, and set over to:

William Marsh Rice University

having the following address:

6100 Main Street
Houston, Texas 77005-1827

(referred to herein as "COMPANY"), its successors, and assigns, the entire right, title, and interest for the United States of America (including without limitation its territories and possessions) in and to the invention known by the following title:

FULLY INTEGRATED CMOS-COMPATIBLE PHOTODETECTOR WITH COLOR SELECTIVITY AND INTRINSIC GAIN

for which the INVENTOR(S) or COMPANY has/have made an application for patent in the United States of America, together with said patent application, all divisions, continuations, continuations-in-part, reissues, and extensions thereof, and all United States Letters Patent which may be granted therefor. Such interest represents the entire ownership of said applications and Letters Patent when granted and is to be owned by COMPANY, its successors, and assigns, or their legal representatives, for the full and entire term for which such Letters Patent may be granted or extended, as fully and entirely as the same would have been enjoyed by the INVENTOR(S) if this assignment had not been made.

In addition, the undersigned INVENTOR(S) each hereby agrees:

1. To sign and execute any further documents which may be necessary or desirable, lawful, and proper in connection with the prosecution of all applications for patent(s) on the INVENTION in the United States, including without limitation said application and all divisions, continuations, continuations-in-part, amendments thereof, and all interference proceedings associated therewith, or otherwise necessary or desirable to secure the title thereto to COMPANY;
2. To execute all papers and documents and to perform all lawful acts which may be necessary in connection with claims to priority or otherwise under the International Convention for the Protection of Industrial Property or similar treaties or agreements;
3. To perform all lawful affirmative acts which may be necessary to obtain the grant of a valid and enforceable patent to COMPANY.

The undersigned INVENTOR(S) each hereby authorizes and requests the Commissioner of Patents and Trademarks in the United States to issue any and all Letters Patent resulting from said application, including without limitation any division, continuation, continuation-in-part, or reissue thereof to COMPANY.

The undersigned INVENTOR(S) each hereby grants to the firm of OSHA LIANG LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for the recordation of this document.

OSHALIANG

Intellectual Property Law

PATENT
REEL: 036707 FRAME: 0479

IN WITNESS WHEREOF, this Assignment has been executed by each of the undersigned individuals on the date appearing by such individual's signature:

05/15/2015 Date
 1st Inventor Signature: [Signature]
 Print or Type Name: Bob Yi Zheng

05/15/2015 Date
 2nd Inventor Signature: [Signature]
 Print or Type Name: Yumin Wang

05/15/2015 Date
 3rd Inventor Signature: [Signature]
 Print or Type Name: Naomi J. Halas

05/15/2015 Date
 4th Inventor Signature: [Signature]
 Print or Type Name: Peter Nordlander

This Assignment may be signed before either:
a Notary Public for one of the States of the United States, or (b) two witnesses who sign below:

State of _____
 County of _____

Before me personally appeared: Bob Yi Zheng Yumin Wang
1st Inventor 2nd Inventor

Naomi J. Halas Peter Nordlander
3rd Inventor 4th Inventor

5th Inventor 6th Inventor

7th Inventor 8th Inventor

each of whom acknowledged the foregoing instrument to be a free act and deed and also represented that he/she is authorized to execute this Assignment.

Dated: _____
 _____ Notary Public My commission expires: _____

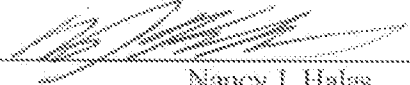
05/15/15 Date
 Signature of Witness: [Signature]
 Print or Type Name: Julie Tilton

5/15/15 Date
 Signature of Witness: [Signature]
 Print or Type Name: SURABHI LAL

When this Assignment is not filed concurrently with the patent application,
 the following identifying information may be added after execution:

U.S. Application Serial No.: 14/701,273
 Filing Date: April 30, 2015

IN WITNESS WHEREOF, this Assignment has been executed by each of the undersigned individuals on the date appearing by such individual's signature:

| | | |
|---------------|------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| Date | 1 st Inventor Signature: | Print or Type Name: Bob Yi Zheng |
| Date | 2 nd Inventor Signature: | Print or Type Name: Yumin Wang |
| Date | 3 rd Inventor Signature:  | Print or Type Name: Nancy J. Halas |
| Date | 4 th Inventor Signature: | Print or Type Name: Peter Nordlander |

When this Assignment is not filed concurrently with the patent application,
the following identifying information may be added after execution:
U.S. Application Serial No.: 14/791,273
Filing Date: April 30, 2015

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Intellectual Property Law

RECORDED: 10/01/2015

PATENT

REEL: 036707 FRAME: 0481