PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT2882877

| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------------------|----------------|
| RICHARD A. MAURITZSON | 05/30/2014 |
| DENNIS ROBERT ENGELBRECHT | 06/03/2014 |
| ROBERT A. BLACK | 05/30/2014 |

RECEIVING PARTY DATA

| Name: | Aptina Imaging Corporation |
|-----------------|----------------------------|
| Street Address: | 190 Elgin Avenue |
| City: | George Town, Grand Cayman |
| State/Country: | CAYMAN ISLANDS |
| Postal Code: | KY1-9005 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14295203 |

CORRESPONDENCE DATA

Fax Number: (415)837-0651

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: tishihara@treyzlawgroup.com

Correspondent Name: G. VICTOR TREYZ
Address Line 1: 870 MARKET STREET

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Address Line 4: SAN FRANCISCO, CALIFORNIA 94102

| ATTORNEY DOCKET NUMBER: | 2014-0046.00/US |
|-------------------------|-----------------------|
| NAME OF SUBMITTER: | TIFFANY R. ISHIHARA |
| SIGNATURE: | /Tiffany R. Ishihara/ |
| DATE SIGNED: | 06/03/2014 |

Total Attachments: 5

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PATENT

2014-0046,00/US

ASSIGNMENT

WHEREAS, We, Richard A. Mauritzson, Dennis Robert Engelbrecht, and Robert A. Black, residing respectively at 3028 W Balata Ct, Meridian, Idaho 83646, 35164 Lillian Dr, Philomath, Oregon 97370, and 1397 Mt. Shasta Ave., Milpitas, California 95035, have made an invention entitled:

IMAGING SYSTEMS HAVING IMAGE SENSOR PIXEL ARRAYS WITH SUB-PIXEL RESOLUTION CAPABILITIES

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 1 | Letters |
|--|-------------|
| Patent therefor, the same having been filed on | |
| () under Application No. (|), in |
| connection with which we hereby authorize and re | equest the |
| assignee's attorneys associated with Customer Nu | umber 86929 |
| to insert within the foregoing parentheses the t | filing date |
| and Application No. of said application when kno | own; and |

WHEREAS, APTINA IMAGING CORPORATION, a corporation organized and existing under the laws of the State of Cayman Islands and having an address of 190 Elgin Avenue, George Town, Grand Cayman, Cayman Islands KY1-9005, is desirous of acquiring the entire interest in said

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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 APTINA IMAGING CORPORATION, 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 APTINA IMAGING CORPORATION 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

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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.

| 5/30/14 Date | Richard A. Mauritzson |
|-----------------|---------------------------|
| Date | Dennis Robert Engelbrecht |
| Date | Robert A. Black |

2014-0046.00/US

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.

| Date | Richard A. Mauritzson |
|-------------|---------------------------|
| 3 June 2014 | Denn Robert Englhalt |
| Date | Dennis Robert Engelbrecht |
| | |
| Date | Robert A Black |

2014-0046.00/US

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.

Date

Richard A. Mauritzson

Date

Dennis Robert Engelbrecht

Date Robert A. Black