

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT | |
| NATURE OF CONVEYANCE: | ASSIGNMENT | |
| CONVEYING PARTY DATA | | |
| | Name | Execution Date |
| | ROBERT A. BLACK | 08/14/2014 |
| 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: | 14460119 |
| CORRESPONDENCE DATA | | |
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| <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> | | |
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| NAME OF SUBMITTER: | VICTORIA AVALOS | |
| SIGNATURE: | /Victoria Avalos/ | |
| DATE SIGNED: | 08/14/2014 | |
| Total Attachments: 3 | | |
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A S S I G N M E N T

WHEREAS, I, Robert A. Black, residing at 1397 Mt. Shasta Ave., Milpitas, California 95035, have made an invention entitled:

IMAGING SYSTEMS HAVING LENS SUBSTRATES WITH TOTAL INTERNAL REFLECTION MITIGATION STRUCTURES

and

(1) am about to make an application for United States Letters Patent therefor, the same having been executed by me 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 I hereby authorize and request the assignee's attorneys associated with Customer Number 86929 to insert within the foregoing parentheses the filing date and Application No. of said application when known; 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 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, I 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 I 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 I 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.

IN TESTIMONY WHEREOF, I have hereunto signed my
name on the date indicated hereinafter.

14 AUG 2014
Date

Robert A. Black
Robert A. Black