

12/18/08

12-19-2008

U.S. DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office

ET

To the Director of the U.S. Patent

103540491

documents or the new address(es) below.

**1. Name of conveying party(ies)**

Micron Technology, Inc.

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) 09/26/2008

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Joint Research Agreement  
☐ Government Interest Assignment  
☐ Executive Order 9424, Confirmatory License  
☐ Other \_\_\_\_\_

**2. Name and address of receiving party(ies)**

Name: Aptina Imaging Corporation

Internal Address: c/o Citco Trustees (Cayman) Limited,

Regatta Office Park

Street Address: West Bay Road

City: Grand Cayman

State: \_\_\_\_\_

Country: Cayman Islands

Zip: Y1-1205

Additional name(s) & address(es) attached? ☐ Yes ☒ No**4. Application or patent number(s):**

A. Patent Application No.(s)

See Attachment B

☐ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☒ Yes ☐ No**5. Name and address to whom correspondence concerning document should be mailed:**

Name: William Greener

Internal Address: Suite 201

Street Address: 10 Brown Road

City: Ithaca

State: NY Zip: 14850

Phone Number: 607-330-4012

Fax Number: 607-330-4015

Email Address: bsupto@bsk.com

**6. Total number of applications and patents involved:** 14**7. Total fee (37 CFR 1.21(h) & 3.41)** \$560.00

- ☒ Authorized to be charged to deposit account  
☐ Enclosed  
☐ None required (government interest not affecting title)

**8. Payment Information**

Deposit Account Number 501546

Authorized User Name William Greener

**9. Signature:**/William Greener/  
Signature

William Greener

Name of Person Signing

12/18/2008 DEYRNE 2008-12-11  
Date 501546 118 0729

01 FC:0021

560.00

Total number of pages including cover sheet, attachments, and documents:

11

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:  
 Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

**Attachment B**

Country	Application Number & File Date	Title
CANADA	2,577,735 File Date: 05/11/2005	Extended Depth of Field Using a Multi-Focal Length Lens with a Controlled Range of Spherical Aberration and a Centrally Obscured Aperture
CHINA	200580036684.X File Date: 05/11/2005	Extended Depth of Field Using a Multi-Focal Length Lens with a Controlled Range of Spherical Aberration and a Centrally Obscured Aperture
EUROPE	05748290.3 File Date: 05/11/2005	Extended Depth of Field Using a Multi-Focal Length Lens with a Controlled Range of Spherical Aberration and a Centrally Obscured Aperture
HONG KONG	08101128.5 File Date: 01/29/2008	Extended Depth of Field Using a Multi-Focal Length Lens with a Controlled Range of Spherical Aberration and a Centrally Obscured Aperture
ISRAEL	181671 File Date: 05/11/2005	Extended Depth of Field Using a Multi-Focal Length Lens with a Controlled Range of Spherical Aberration and a Centrally Obscured Aperture
JAPAN	2007-529820 File Date: 05/11/2005	Extended Depth of Field Using a Multi-Focal Length Lens with a Controlled Range of Spherical Aberration and a Centrally Obscured Aperture
KOREA	7007485/2007 File Date: 05/11/2005	Extended Depth of Field Using a Multi-Focal Length Lens with a Controlled Range of Spherical Aberration and a Centrally Obscured Aperture
WO	PCT/US2005/016231 File Date: 05/11/2005	Extended Depth of Field Using a Multi-Focal Length Lens with a Controlled Range of Spherical Aberration and a Centrally Obscured Aperture
SINGAPORE	200701308-9 File Date: 05/11/2005	Extended Depth of Field Using a Multi-Focal Length Lens with a Controlled Range of Spherical Aberration and a Centrally Obscured Aperture
SINGAPORE	200803018-1 File Date: 05/11/2005	Extended Depth of Field Using a Multi-Focal Length Lens with a Controlled Range of Spherical Aberration and a Centrally Obscured Aperture

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**Attachment B**

UNITED STATES	11/870,729 File Date: 10/11/2007	Extended Depth of Field Using a Multi-Focal Length Lens with a Controlled Range of Spherical Aberration and a Centrally Obscured Aperture
UNITED STATES	11/963,033 File Date: 12/21/2007	Extended Depth of Field Using a Multi-Focal Length Lens with a Controlled Range of Spherical Aberration and a Centrally Obscured Aperture
UNITED STATES	11/956,553 File Date: 12/14/2007	Apparatus and Method for Extended Depth of Field Imaging
UNITED STATES	12/167,741 File Date: 07/03/2008	Extended Depth-of-Field Lenses and Methods for Their Design, Optimization, and Manufacturing

# PATENT ASSIGNMENT AGREEMENT

## 1. Definitions

(a) "Agreement" shall mean this Patent Assignment Agreement.

(b) "Assignee" shall mean **Aptina Imaging Corporation**, a Cayman Islands corporation with offices at c/o Citco Trustees (Cayman) Limited, Regatta Office Park, West Bay Road, Grand Cayman, Y1-1205, Cayman Islands.

(c) "Assignor" shall mean **Micron Technology, Inc.**, a Delaware corporation with offices at 8000 South Federal Way, Boise, ID 83707.

(d) "Effective Date" shall mean October 3, 2008.

(e)

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(f)

A large rectangular area of the document is completely redacted with black ink, covering approximately five lines of text.

(g) "Imaging Patents" shall mean those patents identified in ATTACHMENT "A" hereto, including, without limitation, all divisions, continuations, continuations-in-part, reissues, reexaminations, and all foreign counterparts thereof, and which may issue thereon or in connection therewith after the Effective Date of this Agreement.

(h) "Imaging Patent Applications" shall mean those filed patent applications identified in ATTACHMENT "B" hereto, including, without limitation, all patents, divisions, continuations, continuations-in-part, reissues, reexaminations, and all foreign counterparts which may issue thereon or in connection therewith after the Effective Date of this Agreement.

(i) "Semiconductor Patents" shall mean those patents identified in ATTACHMENT "D" hereto, including, without limitation, all divisions, continuations, continuations-in-part, reissues, reexaminations, and all foreign counterparts thereof, and which may issue thereon or in connection therewith after the Effective Date of this Agreement.

(j) "Semiconductor Patent Applications" shall mean those filed patent applications identified in ATTACHMENT "E" hereto, including, without limitation, all patents, divisions, continuations, continuations-in-part, reissues, reexaminations, and all foreign counterparts which may issue thereon or in connection therewith after the Effective Date of this Agreement.

(k) [REDACTED]

2. [REDACTED]

(a) Subject to the terms and conditions of this Agreement, and subject to the rights of others existing as of the Effective Date of this Agreement if any, Assignor, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, hereby sells, assigns, and transfers to Assignee its entire right, title and interest in and to the Imaging Patents, including all rights to causes of action and remedies related thereto (including the right to sue for past, present or future infringement of rights related to the foregoing and the right to collect damages therefor). Assignor hereby authorizes and requests the Commissioner of Patents of the United States, and any other official of the United States and any country foreign to the United States whose duty it is to issue or record patents, to issue the Imaging Patents to Assignee and to record assignment of the Imaging Patents to Assignee.

(b) Subject to the terms and conditions of this Agreement, and subject to the rights of others existing as of the Effective Date of this Agreement if any, Assignor, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, hereby sells, assigns, and transfers to Assignee its entire right, title and interest in and to the Intellectual Property rights in the Imaging Patent Applications. Assignor hereby authorizes and requests the Commissioner of Patents of the United States, and any other official of the United States and any country foreign to the United States whose duty it is to issue or record patents, to record assignment of the Imaging Patent Applications to Assignee.

(c) [REDACTED]

(d) Subject to the terms and conditions of this Agreement, and subject to the rights of others existing as of the Effective Date of this Agreement if any, and subject further to the restrictions on the Semiconductor Patents set out below, Assignor, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, hereby sells, assigns, and transfers to Assignee its entire right, title and interest in and to the Semiconductor Patents, including all rights to causes of action and remedies related thereto (including the right to sue for past, present or future infringement of rights related to the foregoing and the right to collect damages therefor). Assignor hereby authorizes and requests the Commissioner of Patents of the United States, and any other official of the United States and any country foreign to the United States whose duty it is to issue or record patents, to issue the Semiconductor Patents to Assignee and to record assignment of the Semiconductor Patents to Assignee.

(e) Subject to the terms and conditions of this Agreement, and subject to the rights of others existing as of the Effective Date of this Agreement if any, [REDACTED], Assignor, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, hereby sells, assigns, and transfers to Assignee its entire right, title and interest in and to the Intellectual Property rights in the Semiconductor Patent Applications. Assignor hereby authorizes and requests the Commissioner of Patents of the United States, and any other official of the United States and any country foreign to the United States whose duty it is to issue or record patents, to record assignment of the Semiconductor Patent Applications to Assignee.

(f)

[REDACTED]

[REDACTED]

[REDACTED]

3 [REDACTED]

[REDACTED]

4. [REDACTED]

[REDACTED]

5. [REDACTED]

[REDACTED]

[REDACTED]

6. [REDACTED]

[REDACTED]

7. General

This Agreement shall be effective as of the Effective Date hereof and shall be binding on the respective heirs, assigns, representatives, and successors of Assignor and of Assignee.

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Agreed to by:

**Micron Technology, Inc.**

Signed: \_\_\_\_\_

Date: 9/26/08, 2008

**Notarization**

State of Idaho  
County of Ada

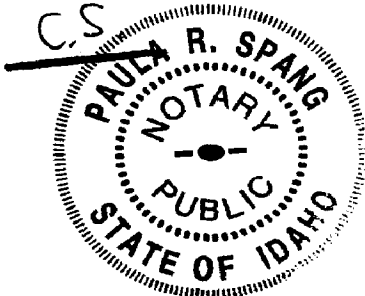
On 9/26/08, before me, Paula R. Spang, personally appeared the above-named Steven R. Appleton

who executed this Assignment in my presence and acknowledged to me that he did so of his own free will and in his authorized capacity for the purposes set forth herein.

Signed: \_\_\_\_\_

My commission expires: 8/12/11

REVIEWED  
MTI LEGAL



Agreed to by:

**Aptina Imaging Corporation**

Signed: \_\_\_\_\_

Date: 9/26/08, 2008

**Notarization**

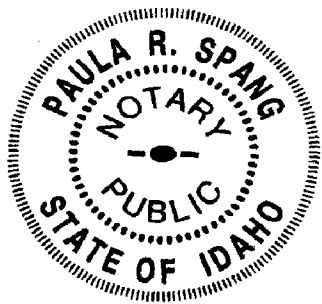
State of Idaho  
County of Ada

On 9/26/08, before me, Paula R. Spang, personally appeared the above-named Thomas L. Lowe, Jr.

who executed this Assignment in my presence and acknowledged to me that he did so of his own free will and in his authorized capacity for the purposes set forth herein.

Signed: \_\_\_\_\_

My commission expires: 8/12/11



[Signature page to the Patent Assignment Agreement]