

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Sehoon Yea</td> <td>06/25/2009</td> </tr> <tr> <td>Kwan-Jung Oh</td> <td>06/29/2009</td> </tr> <tr> <td>Anthony Vetro</td> <td>06/23/2009</td> </tr> </tbody> </table>		Name	Execution Date	Sehoon Yea	06/25/2009	Kwan-Jung Oh	06/29/2009	Anthony Vetro	06/23/2009		
Name	Execution Date										
Sehoon Yea	06/25/2009										
Kwan-Jung Oh	06/29/2009										
Anthony Vetro	06/23/2009										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Mitsubishi Electric Research Laboratories, Inc.</td> </tr> <tr> <td>Street Address:</td> <td>201 Broadway</td> </tr> <tr> <td>City:</td> <td>Cambridge</td> </tr> <tr> <td>State/Country:</td> <td>MASSACHUSETTS</td> </tr> <tr> <td>Postal Code:</td> <td>02139</td> </tr> </table>		Name:	Mitsubishi Electric Research Laboratories, Inc.	Street Address:	201 Broadway	City:	Cambridge	State/Country:	MASSACHUSETTS	Postal Code:	02139
Name:	Mitsubishi Electric Research Laboratories, Inc.										
Street Address:	201 Broadway										
City:	Cambridge										
State/Country:	MASSACHUSETTS										
Postal Code:	02139										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13456218</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13456218						
Property Type	Number										
Application Number:	13456218										
CORRESPONDENCE DATA											
<p>Fax Number:</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 617-621-7577</p> <p>Email: peterson@merl.com</p> <p>Correspondent Name: Kristin Peterson</p> <p>Address Line 1: 201 Broadway</p> <p>Address Line 4: Cambridge, MASSACHUSETTS 02139</p>											
ATTORNEY DOCKET NUMBER:	MERL-2543										
NAME OF SUBMITTER:	Kristin Peterson										
<p>Total Attachments: 6</p> <p>source=MERL-2543-AssignmentCvr-efile#page1.tif</p> <p>source=MERL-2543-Continuation-Assignment#page1.tif</p> <p>source=MERL-2543-Continuation-Assignment#page2.tif</p> <p>source=MERL-2543-Continuation-Assignment#page3.tif</p> <p>source=MERL-2543-Continuation-Assignment#page4.tif</p> <p>source=MERL-2543-Continuation-Assignment#page5.tif</p>											

CH \$40.00 13456218

RECORDATION FORM COVER SHEET

PATENTS ONLY

To the Assistant Commissioner for Patents: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Sehoon Yea
Kwan-Jung Oh
Anthony Vetro

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of Conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name

Execution Dates: June 25, 2009; June 29, 2009; and June 23, 2009

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

Name: Mitsubishi Electric Research Laboratories, Inc.

Street Address: 201 Broadway

City: Cambridge State: MA Zip: 02139

Additional name(s) and address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

13/456,218 a continuation
of 12/405,884

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Mitsubishi Electric Research Laboratories, Inc.

Street Address: 201 Broadway

City: Cambridge State: MA Zip: 02139

6. Total number of applications and patents involved: [1]

7. Total fee (37CFR 3.41): \$40.00

☐ Enclosed

☒ Authorized to be charged to
deposit account

8. Deposit account number: 50-0749

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Kristin Peterson
Name of Person Signing

/Kristin Peterson /
Signature

December 14, 2012
Date

Total number of pages comprising cover sheet: [1]

ASSIGNMENT

WHEREAS, We, LISTED INVENTORS, have made certain inventions or discoveries (or both) set forth in an Application for Utility Patent of the United States of America entitled "Method for Upsampling Depth Images," the specification of which:

- ___ was executed by us on the date indicated below;
- x was filed on March 17, 2009 as Application Serial No. 12/405,884
- ___ was patented under U.S. Patent No. ___ on ___;

WHEREAS, Mitsubishi Electric Research Laboratories, Inc., a corporation of the State of Delaware, whose address is 201 Broadway, Cambridge, Massachusetts 02139, and who, together with its successors and assigns is hereinafter called "Assignee", is desirous of acquiring the entire right, title, and interest together with the benefits and privileges hereinafter recited;

NOW, THEREFORE, for valuable consideration furnished by Assignee to us, receipt and sufficiency of which we hereby acknowledge, we hereby, without reservation;

1. Assign, transfer and convey to Assignee the entire right, title and interest together with the benefits and privileges in and to said inventions and discoveries, said Application for Letters Patent or similar forms of protection of the United States of America, and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation and convention applications based in whole or in part upon said inventions or discoveries, or upon said application, and any and all Letters Patent, reissues and extensions of Letters Patent or similar forms of protection granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said Letters Patent;

2. Authorize Assignee to file patent applications in any or all countries or groups of countries on any or all of

said inventions and discoveries in our name or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or any other relevant convention or treaty or otherwise;

3. Authorize and request the Assistant Commissioner for Patents of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as Assignee of the entire right, title and interest therein or otherwise as Assignee may direct;

4. Warrant that we have not knowingly conveyed to others any rights in said inventions, discoveries, applications or patents or any license to use the same or to make, use or sell anything embodying or utilizing any of said inventions or discoveries; and that we have good right to assign the same to Assignee without encumbrance;

5. Bind our heirs, legal representatives and assigns, as well as ourselves, to do, upon Assignee's request and at Assignee's expense, but without additional consideration to us or them, all acts reasonable serving to assure that said inventions and discoveries, said patent applications and said Letters Patent shall be held and enjoyed by Assignee as fully and entirely as the same could have been held and enjoyed by us, our heirs, legal representatives and assigns if this assignment had not been made; and particularly to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be requested by Assignee; to communicate to Assignee all facts known to us relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in our control or in the control of our heirs, legal representatives or assigns which may be useful for establishing any facts of our conceptions, disclosures, and reduction to practice of said inventions or discoveries.

MERL-2153

IN WITNESS WHEREOF:

DATE I SIGNED INVENTOR'S DECLARATION: March 17, 2009

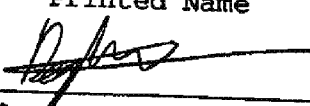

Sehoon Yea

Date:

6/25/2009

Witnessed:

Dongbo Min
Printed Name

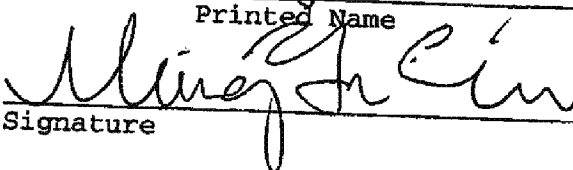

Signature

Date

6/25/2009

Witnessed:

Ming-Yu Liu
Printed Name


Signature

Date

6/25/2009

MERL-2153

IN WITNESS WHEREOF:

DATE I SIGNED INVENTOR'S DECLARATION: March 18, 2009

Kwan-Jung Oh

Date:

6/29/2009

Witnessed:

Jae-Il Jung
Printed Name

Signature

[Signature]

Date

6/29/2009

Witnessed:

Woo-seok Tang
Printed Name

Signature

[Signature]

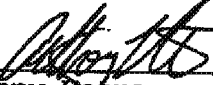
Date

6/29/2009

MERL-2153

IN WITNESS WHEREOF:

DATE I SIGNED INVENTOR'S DECLARATION: March 17, 2009


Anthony Vetro

Date: 6/23/2009

Witnessed: MUHAMMAD SALMAN ASIF
Printed Name


Signature

June 23, 2009
Date

Witnessed: Li Liu
Printed Name


Signature

06/23/2009
Date

PLG 10/94
ASSIGNED FROM

5