

MERL-2176

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):

Ju Yong Chang
Amit K. Agrawal
Ashok Veerarghavan
Ramesh Raskar
Jay Thornton

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

3. Nature of Conveyance:

Assignment Merger
 Security Agreement Change of Name

Execution Dates: May 24, 2010; Sept. 24, 2009; Sept. 24, 2009; Sept. 24, 2009; and Sept. 24, 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)

12/509,860

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.

Erika J. Cherko-Soykan /Erika J. Cherko-Soykan/ May 27, 2010
Name of Person Signing Signature Date

Total number of pages comprising cover sheet: [1]

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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 and System for Estimating 3D Pose of Specular Objects," the specification of which:

- ___ was executed by us on the date indicated below;
- x was filed on July 27, 2009 as Application Serial No. 12/509,860
- ___ 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

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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.

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IN WITNESS WHEREOF:

DATE I SIGNED INVENTOR'S DECLARATION: July 7, 2009

Ju Yong Chang
Ju Yong Chang

Date: 05/24/2010

Witnessed: Sung Eun Hong
Printed Name

Sung Eun Hong
Signature

05/24/2010
Date

Witnessed: Hye Sun Kang
Printed Name

Hye Sun Kang
Signature

05/24/2010
Date

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IN WITNESS WHEREOF:

DATE I SIGNED INVENTOR'S DECLARATION: July 14, 2009

Agrawal
Amit K. Agrawal

Date: 09/24/2009

Witnessed: JOHN C KRAUSE
Printed Name

John C Krause
Signature

09/24/2009
Date

Witnessed: KAREN DUCHE
Printed Name

Karen Duché
Signature

9/24/2009
Date

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IN WITNESS WHEREOF:

DATE I SIGNED INVENTOR'S DECLARATION: July 27, 2009

Ashok Veeraraghavan
Ashok Veeraraghavan

Date: 24 SEP 09

Witnessed: Lou Baccari
Printed Name

Lou Baccari
Signature

9/24/09
Date

Witnessed: Ron Perry
Printed Name

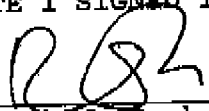
Ron Perry
Signature

9/24/2009
Date

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IN WITNESS WHEREOF:

DATE I SIGNED INVENTOR'S DECLARATION: July 27, 2009


Ramesh N. Raskar

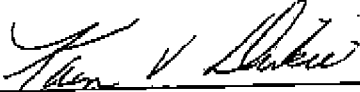
Date: Sept 24, 2009

Witnessed: MANON PUN
Printed Name


Signature

Sept 24, 2009
Date

Witnessed: KAREN DICKIE
Printed Name


Signature

9/24/2009
Date

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IN WITNESS WHEREOF:

DATE I SIGNED INVENTOR'S DECLARATION: July 27, 2009

Jay Thornton
Jay Thornton

Date: 9/29/09

Witnessed: MANON PUN
Printed Name

[Signature]
Signature

Sep 24, 2009
Date

Witnessed: KAREN DICKIE
Printed Name

[Signature]
Signature

9/24/2009
Date