

RECORDED

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To the Director of the U.S. Patent and Trademark Office

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Contents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

William T. Freeman /07/24/2006  
Robert D. W. Fergus /07/24/2006  
Barun Singh /07/25/2006  
/

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

3. Nature of conveyance:

[X] Assignment [ ] Merger  
[ ] Security Agreement [ ] Change of Name  
[ ] Other

2. Name and address of receiving party(ies)

Name: Massachusetts Institute of Technology

Internal Address:

Street Address: 77 Massachusetts Avenue

City: Cambridge

State: Massachusetts

Country: USA Zip: 02139

Additional name(s) & address(es) attached? [ ] Yes [ X ] No

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

A. Patent Application No.(s)

[X] This document is being filed together with a new application.

B. Patent No.(s)

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Additional numbers attached? [ ] Yes [ X ] No

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

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

7. Total Fee (37 CFR 1.21(h) & 3.41) \$ 40.00

[X] Enclosed with application filing fee

[ ] Authorization to charge deposit account number 08-0380

[ ] Previously submitted - Doc. ID No. [ ]

[X] Authorized to charge any deficiencies or credit any overpayment to deposit account number 08-0380

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8.

Mary Lou Wakimura

Name of Person Signing

*Mary Lou Wakimura*  
Signature

7/27/06

Date

Total number of pages including cover sheet, attachments, and documents: [ 4 ]

113261 U.S. PTO  
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Multi-JointASSIGNMENT

WHEREAS, we, **William T. Freeman, Robert D.W. Fergus and Barun Singh**, together with co-inventors **Aaron Phillip Hertzmann and Sam T. Roweis**, have invented a certain improvement in **REMOVING CAMERA SHAKE FROM A SINGLE PHOTOGRAPH** described in an application for Patent,

- ☒ the specification of which is about to be filed in the United States Patent Office *(use for utility (37 CFR § 1.53(b)) and design filings only)*;
- ☐ is about to be filed in the United States Patent Office as a Provisional Application;
- ☐ the specification of which is United States Application No. [    ], filed [    ];
- ☐ the specification of which is a Patent Cooperation Treaty Application, International Application No. [    ], filed [    ], which designates the United States of America [and assigned United States Application No. [    ]];
- ☐ which was patented under United States Patent No. [    ].

WHEREAS, **Massachusetts Institute of Technology** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **Commonwealth of Massachusetts**, and having a usual place of business at **77 Massachusetts Avenue, Cambridge, Massachusetts 02139** desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, our entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with our entire right, title and interest in and to said application and such Letters Patent as may issue on said invention; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of our entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein; I hereby

expressly authorize the filing of an International Patent Application under the Patent Cooperation Treaty which corresponds to and claims the priority of the above-identified application;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of any further applications including substitution, reissue, divisional or continuation applications, and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request each Patent Office and the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said invention to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: William T. Freeman  
**William T. Freeman**

State/Commonwealth  
of Massachusetts  
County of Middlesex

On this 24 day of July, 2006, before me, the undersigned notary public, personally appeared **William T. Freeman**,

☐ personally known to me, or

☒ proved to me through satisfactory evidence of identification, which was  
MA license

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Andrew E. Barry Notary Public  
ANDREW E. BARRY (print name)

My Commission expires 8/30/2007

Inventor's Signature: Robert D. W. Fergus  
Robert D. W. Fergus

State/Commonwealth of Massachusetts  
County of Middlesex

On this 24 day of July, 2006, before me, the undersigned notary public, personally appeared **Robert D. W. Fergus**,

☐ personally known to me, or

☒ proved to me through satisfactory evidence of identification, which was MIT ID

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Andrea E. Barry Notary Public  
ANDREA E. BARRY (print name)  
My Commission expires 8/30/2007

Inventor's Signature: Barun Singh  
Barun Singh

State/Commonwealth of Massachusetts  
County of Middlesex

On this 25 day of July, 2006, before me, the undersigned notary public, personally appeared **Barun Singh**,

☐ personally known to me, or

☒ proved to me through satisfactory evidence of identification, which was the drivers license

to be the person whose name was signed on the foregoing instrument in my presence, and acknowledged that he/she signed the foregoing instrument as his/her free act and deed.

(SEAL)

Andrea E. Barry Notary Public  
ANDREA E. BARRY (print name)  
My Commission expires 08/30/2007