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To the Director of the U.S. Patent and Trademark Office, please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

Vadim Backman

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

2. Name and address of receiving party(ies)

Name: Northwestern University

Internal Address: _____

Street Address: 633 Clark Street

City: Evanston

State: Illinois

Country: U.S.A. Zip: 60208

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

3. Nature of conveyance/Execution Date(s):

Execution Date(s) February 27, 2008

- Assignment Merger
- Security Agreement Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other _____

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

11/891,877

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: Douglas B. Teaney

Internal Address: Greenberg Traurig, LLP

Street Address: 77 West Wacker Drive

Suite 2500

City: Chicago

State: Illinois Zip: 60601

Phone Number: _____

Fax Number: _____

Email Address: _____

6. Total number of applications and patents involved: 1

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

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 502428

Authorized User Name Douglas B. Teaney

9. Signature:

Richard D. Harris
Signature

4-4-08
Date

Richard D. Harris

Name of Person Signing

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

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

04/14/2008 DBYRNE 00000034 502428 11891877
01 FC:0021 40.00 DA

ASSIGNMENT

WHEREAS, we/I, **Vadim Backman**, a citizen of the United States of America, residing at 525 W Hawthorne, Apt 2807, Chicago, Illinois 60657, has invented new and useful improvements for which a U.S. patent application in the United States Patent and Trademark Office was filed on **August 13, 2007**, which is entitled "*Method for Identifying Refractive-Index Fluctuations of a Target*," and was assigned U.S. Serial No. 11/891,877;

AND WHEREAS, **Northwestern University**, a corporation organized and existing under and by virtue of the laws of the State of Illinois, and having a place of business at 633 Clark Street, Evanston, Illinois, 60208, U.S.A., (hereinafter "Assignee") is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefor;

NOW THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar and other good and valuable considerations, the receipt and sufficiency whereof is hereby acknowledged, we/I have sold, assigned, and transferred, and by these presents do sell, assign and transfer to said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the application, all divisionals, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the inventions and improvements, including an assignment of all rights under

the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and we/I do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the Assignee, its successors and assigns.

AND, for the consideration aforesaid, we/I do hereby agree that we/I and our/my executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us/me relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore we/I covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us/me and that full right to convey the same as herein expressed is possessed by us/me

We/I also authorize counsel for Applicant to enter above the serial number of the application or other related information when it becomes available.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 27 day of

February, 2008

Vadim Backman
Vadim Backman

STATE OF _____)
) ss.
COUNTY OF _____)

On this _____ day of _____, 2008 before me personally appeared **Vadim Backman**, to me known and known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth

[SEAL]

Notary Public