

### RECORDATION FORM COVER SHEET PATENTS ONLY

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)**

Mark Doyle

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

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

Name: Allegheny-Singer Research Institute

Internal Address: \_\_\_\_\_

Street Address: 320 East North Avenue

City: Pittsburgh

State: PA

Country: United States Zip: 15212

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

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

Execution Date(s) 3/4/2010

- 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)

12/589,191

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: Ansel M. Schwartz, Attorney at Law

Internal Address: \_\_\_\_\_

Street Address: 201 N. Craig Street

Suite 304

City: Pittsburgh

State: PA Zip: 15213

Phone Number: 412 621-9222

Fax Number: (412) 621-8640

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 to deposit account
- Enclosed
- None required (government interest not affecting title)

**8. Payment Information**

Deposit Account Number 19-0737

Authorized User Name \_\_\_\_\_

**9. Signature:**

Ansel Schwartz  
Signature

3/5/10  
Date

Ansel M. Schwartz  
Name of Person Signing

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

3

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

CH \$40.00 190737 12589191

**Practitioner's Docket No. AHS-42****PATENT**

For: U.S. Rights and Foreign Rights  
For: U.S. Application  
By: Inventor

**ASSIGNMENT OF INVENTION**

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

**ASSIGNOR:**

Mark Doyle  
310 Knobs Hill Court  
Wexford, PA 15090  
Nationality: United States

hereby sells, assigns and transfers to

**ASSIGNEE:**

Allegheny-Singer Research Institute  
320 East North Avenue  
Pittsburgh, PA 15212  
State or Country of Formation: United States

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions and in all foreign countries, including all rights to claim priority, in and to any and all improvements which are disclosed in the invention entitled:

Targeted Acquisition Using Holistic Ordering (TACHO) Approach for High Signal to Noise Imaging


and which is found in (37 C.F.R. Section 3.21) U.S. application no. 12/589,191 filed on October 20, 2009 and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I have hereunto set hand and seal this 4<sup>th</sup> March day of March 2010

Date: 4<sup>th</sup> March 2010

  
\_\_\_\_\_  
Signature of Mark Doyle