### PATENT ASSIGNMENT COVER SHEET

**SUBMISSION TYPE:** NEW ASSIGNMENT  
**NATURE OF CONVEYANCE:** EXECUTIVE ORDER 9424, CONFIRMATORY LICENSE

#### CONVEYING PARTY DATA

<table>
<thead>
<tr>
<th>Name</th>
<th>Execution Date</th>
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<tbody>
<tr>
<td>STANFORD UNIVERSITY</td>
<td>03/15/2017</td>
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#### RECEIVING PARTY DATA

<table>
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<tr>
<th>Name:</th>
<th>National Institutes of Health (NIH), U.S. Dept. of Health and Human Services (DHHS), U.S. Government</th>
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<tbody>
<tr>
<td>Street Address:</td>
<td>NIH Division of Extramural Inventions and Technology Resources (DEITR)</td>
</tr>
<tr>
<td>Internal Address:</td>
<td>6705 Rockledge Drive, Suite 310, MSC 7980</td>
</tr>
<tr>
<td>City:</td>
<td>Bethesda</td>
</tr>
<tr>
<td>State/Country:</td>
<td>MARYLAND</td>
</tr>
<tr>
<td>Postal Code:</td>
<td>20892-7980</td>
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**PROPERTY NUMBERS Total:** 1

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<tr>
<td>Application Number</td>
<td>14697040</td>
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**CORRESPONDENCE DATA**

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**NAME OF SUBMITTER:** DIRECTOR, DEITR, NIH

**SIGNATURE:** /Director, DEITR, NIH/

**DATE SIGNED:** 03/16/2017

**Total Attachments:** 1

source=8046501-14697040#page1.tif
License to the United States Government

Sign and submit the executed document to the appropriate funding agency (e.g. upload in iEdison).

Invention Title: Matched-phase semi-adiabatic multi-slice spin-echo PINS pulse pair

Inventor(s): Priti Balchandani, Rebecca Feldman, Haisam Islam

U.S. Filing/Issue Date: 04/27/2015

Patent or Application Serial No.: 14/697,040

Grant/Contract Number(s): EB015891, NS070821

Foreign Applications filed/intended in (countries):

The invention identified above is a Subject Invention under 35 U.S.C. 200, et seq., and the Standard Patent Rights clause at 37 CFR 401.14, FAR 52.227-11 or FAR 52.227-12 (if applicable) which are included among the terms of the above identified grant or contract award from the United States Government. This document is confirmatory of:

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The Government is hereby granted an irrevocable power to inspect and make copies of the above-identified patent application.

Signed this 15 day of March, 2017.

By Katherine Ku (Institutional Business Official) (Signature)

Title Director, Office of Technology Licensing

For Stanford University (Grantee/Contractor Organization)

At 1705 El Camino Real Palo Alto, CA 94306 (Business Address)