

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT2683188

SUBMISSION TYPE:	NEW ASSIGNMENT						
NATURE OF CONVEYANCE:	ASSIGNMENT						
CONVEYING PARTY DATA							
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>SHIKHA . JAIN</td> <td>11/15/2013</td> </tr> <tr> <td>VALENTYN . NOVOSAD</td> <td>11/21/2013</td> </tr> </tbody> </table>		Name	Execution Date	SHIKHA . JAIN	11/15/2013	VALENTYN . NOVOSAD	11/21/2013
Name	Execution Date						
SHIKHA . JAIN	11/15/2013						
VALENTYN . NOVOSAD	11/21/2013						
RECEIVING PARTY DATA							
Name:	U.S. Department of Energy						
Street Address:	1000 Independence Avenue, S.W.						
Internal Address:	GC-62, 6F-048						
City:	Washington						
State/Country:	DISTRICT OF COLUMBIA						
Postal Code:	20585-0162						
PROPERTY NUMBERS Total: 1							
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14082260</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14082260		
Property Type	Number						
Application Number:	14082260						
CORRESPONDENCE DATA							
Fax Number:	(202)586-7127						
Phone:	202-586-2810						
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<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>							
Correspondent Name:	KATHERINE BALDWIN						
Address Line 1:	1000 INDEPENDENCE AVENUE, S.W.						
Address Line 2:	GC-62, 6F-048						
Address Line 4:	WASHINGTON, DISTRICT OF COLUMBIA 20585-0162						
ATTORNEY DOCKET NUMBER:	S-131,458						
NAME OF SUBMITTER:	KATHERINE BALDWIN						
Signature:	/Katherine Baldwin/						

Date:

01/15/2014

Total Attachments: 3

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**U.S. Department of Energy  
Patent Assignment Form**

14/089260

Whereas, I/we, Shikha Jain and Valentyn Novosad

*have invented certain new and useful improvements in :*

**DYNAMIC CONTROL OF SPIN STATES IN INTERACTING MAGNETIC ELEMENTS**

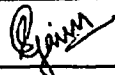
, for which I/we have/will file an application for United States Letters Patent, identified as: S-131,458

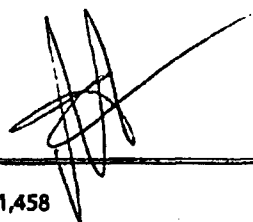
and;

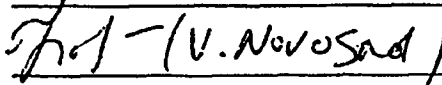
*WHEREAS, the Government of the United States desires to acquire the entire right, title, and interest in and to said invention and in and to any Letters Patent wherever they may be issued thereon;*


*NOW, THEREFORE, to all whom it may concern, be it known that good and valuable consideration, the receipt of which is hereby acknowledged, we by these presents do sell, assign, and transfer unto the said Government of the United States, as represented by the United States Department of Energy, and/or its assigns, the entire right, title, and interest in and to the said invention and in and to any and all Letters Patent wherever they may be granted thereon as well as reissues and extensions of said Letters Patent are or may be granted, reissued, or extended, as fully and entirely as the same would have been held or enjoyed by us had this assignment not been made.*

*I/We agree to make, execute, and deliver unto the Government of the United States, or to the United States Department of Energy, any and all papers, documents, affidavits, renewal, divisional and reissue applications, statements, or other instruments in such usual or other forms, terms and contents as may be required by the United States Department of Energy, or its duly authorized representative, in or incident to the prosecution or conduct of any and all applications, before as well as after the issuance of any Letters thereon, or in the adjustment or settlement of any interferences or other actions or proceedings that said applications may encounter or in which they may become involved and we agree that we will encounter or in which they may become involved and we agree that we will aid the Government of the United States in every way in protecting the inventions as may be requested by the United States Department of Energy or its assigns, except that any expenses arising through extending such assistance will be paid for by proper arrangement with the Government of the United States.*


**Inventor:**  
Full name of Inventor: Shikha Jain  
Inventor's signature:  Date 11/15/2013  
Address: 310 Crescent Village Cir., Apt# 1313, San Jose, CA-95134, US

**Witness to Signature:**  
Full name of Witness: Oleksandr Mosenetz  
Witness' Signature:  Date 11/15/2013  
Assignment to DOE regarding: S-131,458  
DYNAMIC CONTROL OF SPIN STATES IN INTERACTING MAGNETIC ELEMENTS

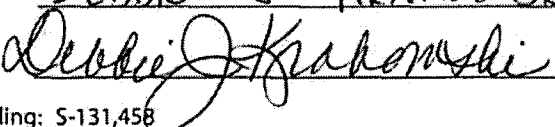
**Inventor:**  
Full name of Inventor: Valentyn Novosad  
Inventor's signature:  Date 11/21/2013  
Address: 12686 Waterford Drive, Lemont IL 60439

**Witness to Signature:**  
Full name of Witness: RAUL HENNINGS YERIMANS  
Witness' Signature:  Date 11/21/13  
Assignment to DOE regarding: S-131,458  
DYNAMIC CONTROL OF SPIN STATES IN INTERACTING MAGNETIC ELEMENTS

**Contractor Approval and Consent:**

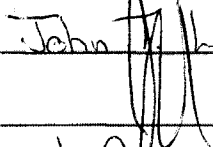
Full Name: Mark D. Hilliard  
Signature:  Date 11-25-13  
Title: Chief Patent Counsel  
Organization: UChicago Argonne, LLC, Operator of Argonne National Laboratory

**Witness to Signature:**


Full name of Witness: DEBBIE J. KEAKOWSKI  
Witness' Signature:  Date 11-25-13  
Assignment to DOE regarding: 5-131,458  
DYNAMIC CONTROL OF SPIN STATES IN INTERACTING MAGNETIC ELEMENTS

**Government Acceptance:**

Accepted for the Benefit of the Government of the United States.

Full Name: John A. Lucas  
Signature:  Date 11/25/13  
Title: Asst. General Counsel for Technology Transfer & Intellectual Property

**Witness to Signature:**

Full name of Witness: Katherine Baldwin  
Witness' Signature:  Date 11-25-2013  
Acceptance of assignment to DOE regarding: 5-131,458  
DYNAMIC CONTROL OF SPIN STATES IN INTERACTING MAGNETIC ELEMENTS