

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4237629

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
RICHARD L. RYLANDER	11/01/2016
ANDREW P. BONIFAS	10/31/2016
JIA HU	10/31/2016
STEPHEN J. WILLETT	10/31/2016
CHAODI LI	10/30/2016
ORLIN B. KNUDSON	10/31/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	3M Innovative Properties Company
<b>Street Address:</b>	P.O. Box 33427
<b>City:</b>	St. Paul
<b>State/Country:</b>	MINNESOTA
<b>Postal Code:</b>	55133-3427
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15328244
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(651)736-3833
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
<b>Phone:</b>	651-733-1500
<b>Email:</b>	tlemke2@mmm.com
<b>Correspondent Name:</b>	3M INNOVATIVE PROPERTIES COMPANY
<b>Address Line 1:</b>	P.O. BOX 33427
<b>Address Line 4:</b>	ST. PAUL, MINNESOTA 55133-3427
<b>ATTORNEY DOCKET NUMBER:</b>	75682US004
<b>NAME OF SUBMITTER:</b>	TERI M. LEMKE
<b>SIGNATURE:</b>	/Teri M. Lemke/
<b>DATE SIGNED:</b>	01/23/2017
This document serves as an Oath/Declaration (37 CFR 1.63).	

**Total Attachments: 6**

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**DECLARATION AND ASSIGNMENT,  
FOR UTILITY OR DESIGN  
PATENT APPLICATION (37 CFR § 1.63)**

Case No:

75682US004

As a below named inventor, I believe I am an original inventor or an original joint inventor of a claimed invention in the application and for which a patent is sought on the invention entitled:

**SYSTEMS AND METHODS FOR MAGNETO-MECHANICAL RESONATOR SENSORS**

The specification of which:

☐ is attached hereto;

☐ was filed on \_\_\_\_\_  
as United States Application No. \_\_\_\_\_

☒ is identified as PCT International Application No. \_\_\_\_\_  
filed on **August 18, 2015**

**PCT/US2015/045621**

The above-identified application was made or authorized to be made by me.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than 5 years, or both.

In addition, for good and valuable consideration, receipt of which is acknowledged, I have agreed to assign and transfer and do hereby assign and transfer unto the 3M INNOVATIVE PROPERTIES COMPANY, a wholly-owned subsidiary of 3M COMPANY, and a corporation of Delaware, having its principal office at Saint Paul, Minnesota, its successors and assigns, the entire right, title, and interest in and to the said invention and application, and in and to any division or continuation (in whole or in part) of said application, and in and to any and all improvements in the said invention made by me or made jointly with others (provided any such improvement is made during, or within one year after the termination of, my employment with 3M COMPANY and any of its existing or future subsidiaries), and in and to any and all Letters Patent, reexaminations, reissues, or extensions thereof, of the United States of America and countries foreign thereto (including the right to apply for Letters Patent, Utility Models, or Inventors' Certificates in foreign countries in its own name and to claim any priority rights for such foreign applications to which such applications are entitled under international conventions, treaties, or otherwise), which have been or may be granted thereon or on any divisional, continuation (in whole or in part), renewal, reexamination, reissue, or other or further application based in whole or in part upon the said invention or improvements thereon, to be held and enjoyed as fully and exclusively as they would have been by me had this assignment and transfer not been made;

I do further agree for myself and for my heirs, executors, and administrators, to execute and deliver without further consideration any further applications, assignments, and documents, and to perform such other acts as I lawfully may, that may be deemed necessary by said Company, its successors, assigns, and nominees, fully to secure its right, title, and interest as aforesaid and to obtain or maintain Letters Patent, Utility Models, or Inventors' Certificates in any and all countries; and

I do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said 3M Innovative Properties Company, as the assignee of the entire right, title, and interest therein.

Legal Name of Inventor:

**Richard L. Rylander**

Inventor's Signature:



Date:

11/1/2016

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PATENT APPLICATION (37 CFR § 1.63)**

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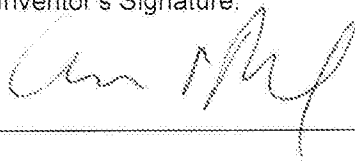
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Legal Name of Inventor:

**Andrew P. Bonifas**

Inventor's Signature:



Date:

*Oct. 31, 2016*

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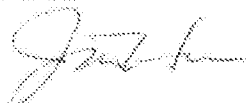
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I do hereby authorize and request the Commissioner of Patents to issue any and all Letters Patent which may be granted upon any of the said applications, to said 3M Innovative Properties Company, as the assignee of the entire right, title, and interest therein.

Legal Name of Inventor:

**Jia Hu**

Inventor's Signature:



Date:

*Oct 31, 2016*

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Case No:

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Legal Name of Inventor:

**Stephen J. Willett**

Inventor's Signature:



Date:

31 October 2016

**DECLARATION AND ASSIGNMENT,  
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PATENT APPLICATION (37 CFR § 1.83)**

Case No:

75682US004

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Legal Name of Inventor:

**Chaodi Li**

Inventor's Signature:



Date:

**10/30/2016**

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Legal Name of Inventor:

**Orlin B. Knudson**

Inventor's Signature:



Date:

*Oct. 31, 2016*