

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT3915186

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SHAHAB D. MOHAGHEGH	04/08/2016
SEYED ALIREZA HAGHIGHAT	04/07/2016
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	WEST VIRGINIA UNIVERSITY
<b>Street Address:</b>	CHESTNUT RIDGE RESEARCH BUILDING
<b>Internal Address:</b>	886 CHESTNUT RIDGE ROAD P.O. BOX 6224
<b>City:</b>	MORGANTOWN
<b>State/Country:</b>	WEST VIRGINIA
<b>Postal Code:</b>	26506-6216
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15091176
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(770)951-0933
<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>	770-933-9500
<b>Email:</b>	maddie.weller@thomashorstemeyer.com
<b>Correspondent Name:</b>	SCOTT A. HORSTEMEYER
<b>Address Line 1:</b>	400 INTERSTATE NORTH PARKWAY
<b>Address Line 2:</b>	SUITE 1500
<b>Address Line 4:</b>	ATLANTA, GEORGIA 30339
<b>ATTORNEY DOCKET NUMBER:</b>	052324-1180
<b>NAME OF SUBMITTER:</b>	RANDY R. SCHOEN
<b>SIGNATURE:</b>	/Randy R. Schoen/
<b>DATE SIGNED:</b>	06/13/2016
<b>Total Attachments: 4</b>	
source=52324-1180_FULLY_Executed_Assignment#page1.tif	
source=52324-1180_FULLY_Executed_Assignment#page2.tif	
source=52324-1180_FULLY_Executed_Assignment#page3.tif	



**ASSIGNMENT  
OF UTILITY PATENT APPLICATION**

WHEREAS, the following parties:

<u>Name</u>	<u>Address</u>
Shahab D. Mohaghegh	55 Tara Place, Morgantown, WV 26505
Seyed Alireza Haghighat	2121 Old Gatesburg Road, Suite 110, State College, PA 16803

hereinafter referred to as ASSIGNOR, has/have invented certain new and useful improvements ("invention(s)") as described and set forth in the below-identified utility application for United States Letters Patent entitled:

**LEAKAGE DETECTION USING SMART FIELD TECHNOLOGY,**

which was:

- ☐ executed on even date herewith,
- ☒ filed with the United States Patent and Trademark Office (USPTO) on April 5, 2016, and assigned Serial No. 15/091,176, and
- ☒ further described in U.S. Provisional application entitled CO<sub>2</sub> LEAKAGE DETECTION USING SMART FIELD TECHNOLOGY, filed with the USPTO on April 7, 2015, and assigned Serial No. 62/144,035.

WHEREAS, West Virginia University, having a place of business at Chestnut Ridge Research Building, 886 Chestnut Ridge Road P.O. Box 6224, Morgantown, WV 26506-6216, hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S interest in and to said invention(s), said utility application, said provisional application, and any U.S. and foreign patents which are related to the same.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by ASSIGNOR, ASSIGNOR has sold, assigned and transferred and does hereby sell, assign and transfer unto ASSIGNEE, and ASSIGNEE'S successors and assigns, (a) the entire right, title and interest, for the United States of America, in and to said invention(s), said utility application, and said Provisional application and all the rights and privileges in any application and under any and all patents that may be granted in the U.S. for said inventions, including all corresponding provisional, continuation, continuation-in-part, divisional, reissue, and reexamination applications; and (b) the entire right, title and interest in and to said invention(s), said utility application, and said provisional application for all countries foreign to the U.S., including all rights of priority arising from them, and all the rights and privileges under any and all forms of protection, including patents, that may be granted in said countries foreign to the U.S. for them.

ASSIGNOR authorizes ASSIGNEE to make application for such protection in its own name and maintain such protection in any and all countries foreign to the U.S., and to invoke and claim for any application for patent or other form of protection for said Inventions, without further authorization from ASSIGNOR, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

ASSIGNOR hereby consents that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of ASSIGNEE to apply for patent or other form of protection for said Inventions, said utility application, or said provisional application and to claim the aforesaid benefit of the right of priority.

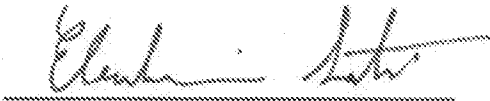
ASSIGNOR requests that any and all patents for said inventions be issued to ASSIGNEE in the U.S. and to ASSIGNEE in all countries foreign to the U.S., or to such nominee as ASSIGNEE may designate.

ASSIGNOR covenants and agrees that, when requested, ASSIGNOR shall, without charge to ASSIGNEE but at ASSIGNEE'S expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient in connection with the patent applications, patents, or other forms of protection of said invention(s), and for the defense and protection thereof if challenged in the court of law.

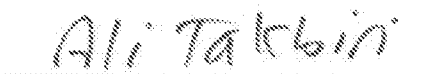
ASSIGNOR authorizes ASSIGNEE or its agents to insert, on ASSIGNOR's behalf, the filing date and/or serial number above pertaining to the utility application and/or the provisional application, if not known as of the date of execution of this document.

  
\_\_\_\_\_  
Shahab D. Mohaghegh

Date: 4/8/2016

  
\_\_\_\_\_  
Ebrahim Fathi  
Witness

Date: 4/8/2016

  
\_\_\_\_\_  
Ali Takbini  
Witness

Date: 4/8/2016

S.A. Haghighat  
Seyed Alireza Haghighat

Date: 4/7/2016

Neda Nasirani  
Witness

Date: 4/7/2016

Azadeh Keivani  
Witness

Date: 4/7/2016