

## PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

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>James D. Van de Ven</td> <td>08/28/2013</td> </tr> <tr> <td>Shawn R. Wilhelm</td> <td>08/28/2013</td> </tr> </tbody> </table>		Name	Execution Date	James D. Van de Ven	08/28/2013	Shawn R. Wilhelm	08/28/2013						
Name	Execution Date												
James D. Van de Ven	08/28/2013												
Shawn R. Wilhelm	08/28/2013												
RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>Regents of the University of Minnesota</td> </tr> <tr> <td>Street Address:</td> <td>1000 Westgate Drive</td> </tr> <tr> <td>Internal Address:</td> <td>Suite 160</td> </tr> <tr> <td>City:</td> <td>St. Paul</td> </tr> <tr> <td>State/Country:</td> <td>MINNESOTA</td> </tr> <tr> <td>Postal Code:</td> <td>55114-8658</td> </tr> </table>		Name:	Regents of the University of Minnesota	Street Address:	1000 Westgate Drive	Internal Address:	Suite 160	City:	St. Paul	State/Country:	MINNESOTA	Postal Code:	55114-8658
Name:	Regents of the University of Minnesota												
Street Address:	1000 Westgate Drive												
Internal Address:	Suite 160												
City:	St. Paul												
State/Country:	MINNESOTA												
Postal Code:	55114-8658												
<table border="1"> <tr> <td>Name:</td> <td>Worcester Polytechnic Institute</td> </tr> <tr> <td>Street Address:</td> <td>100 Institute Road</td> </tr> <tr> <td>City:</td> <td>Worcester</td> </tr> <tr> <td>State/Country:</td> <td>MASSACHUSETTS</td> </tr> <tr> <td>Postal Code:</td> <td>01609</td> </tr> </table>		Name:	Worcester Polytechnic Institute	Street Address:	100 Institute Road	City:	Worcester	State/Country:	MASSACHUSETTS	Postal Code:	01609		
Name:	Worcester Polytechnic Institute												
Street Address:	100 Institute Road												
City:	Worcester												
State/Country:	MASSACHUSETTS												
Postal Code:	01609												
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>14012677</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14012677								
Property Type	Number												
Application Number:	14012677												
CORRESPONDENCE DATA													
Fax Number:	6123393061												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone:	612-373-6900												
Email:	USPTO@slwip.com												
Correspondent Name:	SCHWEGMAN, LUNDBERG & WOESSNER / U of M												
Address Line 1:	PO BOX 2938												
Address Line 4:	MINNEAPOLIS, MINNESOTA 55402												

CH \$40.00 14012677

ATTORNEY DOCKET NUMBER:	600.887US1
NAME OF SUBMITTER:	David W. Black
Signature:	/David W. Black/
Date:	08/28/2013
Total Attachments: 4 source=600887ASSGN1#page1.tif source=600887ASSGN1#page2.tif source=600887ASSGN1#page3.tif source=600887ASSGN1#page4.tif	

### ASSIGNMENT

WHEREAS, James D. Van de Ven and Shawn R. Wilhelm (hereinafter the "Undersigned") have made one or more inventions and other subject matter (hereinafter collectively referred to as the "Invention") which are described in a patent application filed on 8/28/13, which application was assigned US patent application serial number 14/012,677, and which is titled ADJUSTABLE LINKAGE FOR VARIABLE DISPLACEMENT, and which are described in a patent application filed on August 28, 2012, which application was assigned US provisional application serial number 61/693,998, and which is titled ADJUSTABLE LINKAGE FOR A VARIABLE DISPLACEMENT PUMP.

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency, and adequacy of which are hereby acknowledged by the Undersigned, the Undersigned do hereby irrevocably and unconditionally:

CONVEY, ASSIGN, AND TRANSFER to Regents of the University of Minnesota, a corporation of the State of Minnesota, having a place of business at 1000 Westgate Drive, Suite 160, St. Paul, MN 55114-8658 and to Worcester Polytechnic Institute, a corporation of the State of Massachusetts, having a place of business at 100 Institute road, Worcester, MA 01609 (the "Assignees") the Undersigned's entire right, title, and interest for the United States and all foreign countries and jurisdictions in and to:

the invention which is disclosed in the above-identified application or applications;

such application or applications, and all divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other applications for a patent or patents which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries and jurisdictions based in whole or in part on any of such invention (including any application for a utility model or an innovation patent application);

all original and reissued patents which have been or shall be issued in the United States and all foreign countries and jurisdictions based in whole or in part on any of such invention;

including the right to claim priority to the above-identified patent application or applications in relation to subject matter based in whole or in part on the above-identified patent application or applications and any of the foregoing including the right to file foreign applications under the provisions of any convention or treaty;

and including the right to all causes of action, remedies, and other enforcement rights related to the above-identified application or applications, including without limitation the right to sue for past, present, or future infringement, misappropriation, or violation of any and all rights related to the above-identified patent application or applications and any of the foregoing, including the right to obtain and collect damages for past, present, or future infringement;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such invention to the Assignee;

Assignment

Assignors: James D. Van de Ven et al.

Title: ADJUSTABLE LINKAGE FOR VARIABLE DISPLACEMENT

Page 2 of 4

Docket No: 600,887US1  
Client Ref. No: 20130033

AUTHORIZE AND REQUEST that any attorney associated with U.S. Patent and Trademark Office (USPTO) Customer No. 45835 may (directly or through his/her designee) delete, insert, or alter any information related to the above-identified patent application or applications or any of the foregoing, after execution of this Assignment;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or shall be made to others by the Undersigned, and that the full right to convey the same as herein expressed is possessed by the Undersigned;

COVENANT, that when requested and without compensation, but at the expense of the Assignee, in order to carry out in good faith the intent and purpose of this Assignment, the Undersigned shall (1) execute all provisional, non-provisional, divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other patent applications for the Invention; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers for the Invention; (3) communicate to the Assignee all facts known to the Undersigned relating to the Invention and the history thereof; (4) cooperate with the Assignee in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for the Invention; and (5) take such further actions as the Assignee shall reasonably consider necessary or desirable for vesting title to such Invention in the Assignee, or for securing, maintaining and enforcing proper patent protection for the Invention;

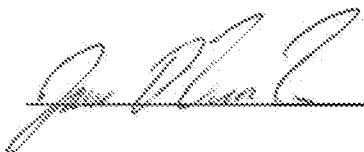
COVENANT, that should any provision of this agreement be held unenforceable by an authority of competent jurisdiction, such a ruling shall not affect the validity and enforceability of the remaining provisions. To the extent that any such provision is found to be unenforceable, the Undersigned, when requested and without compensation shall act in good faith to substitute for such provision a new provision with content and purpose as close as possible to the provision deemed unenforceable.

THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives, and successors of the Undersigned, and is to extend to the benefit of the successors, assigns, and nominees of the Assignee.

AGREED as of the date of my signature below:

Assignor:

(Signature):



Name: James D. Van de Ven

City/State: Long Lake, MN

Date:

8/28/2013

STATE OF Minnesota )

)ss

COUNTY OF Hennepin )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_ before me personally appeared James D. Van de Ven, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]

\_\_\_\_\_

Notary Public

Assignor:

(Signature):



Name: Shawn R. Wilhelm

City/State: Minneapolis, Minnesota

Date:

8/28/2013

STATE OF Minnesota )

)ss

COUNTY OF Hennepin )

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_ before me personally appeared Shawn R. Wilhelm, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[SEAL]

\_\_\_\_\_  
Notary Public