

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4923139

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
RAY OLIVER KNOEPPEL	02/16/2018
BRIAN THOMAS BRANECKY	02/16/2018
GEOFFREY J. BEHR	03/27/2018
JACOB M. PIXLER	02/16/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	A. O. Smith Corporation
<b>Street Address:</b>	11270 West Park Place
<b>City:</b>	Milwaukee
<b>State/Country:</b>	WISCONSIN
<b>Postal Code:</b>	53224
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15818221
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(414)277-0656
<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>	4142716560
<b>Email:</b>	mkeipdocket@michaelbest.com
<b>Correspondent Name:</b>	MICHAEL BEST & FRIEDRICH LLP
<b>Address Line 1:</b>	100 E. WISCONSIN AVENUE
<b>Address Line 2:</b>	SUITE 3300
<b>Address Line 4:</b>	MILWAUKEE, WISCONSIN 53202-4108
<b>ATTORNEY DOCKET NUMBER:</b>	010121-2582-US01
<b>NAME OF SUBMITTER:</b>	DANIEL S. JONES
<b>SIGNATURE:</b>	/daniel s. jones/
<b>DATE SIGNED:</b>	04/19/2018
<b>Total Attachments: 4</b>	
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## ASSIGNMENT

Pursuant to our obligation to A. O. Smith Corporation (hereinafter referred to as "Assignee"), a Delaware corporation having its principal place of business at:

11270 West Park Place  
Milwaukee, WI 53224

and for other valuable and sufficient consideration, receipt whereof is hereby acknowledged,  
We:

Ray Oliver Knoeppel  
N8691 W316 Palomino Circle  
Hartland, WI 53029

Brian Thomas Branecky  
W343 N6925 E. Circle Drive  
Oconomowoc, WI 53066

Geoffrey J. Behr  
1485 N. Farwell.  
Milwaukee, WI 53202

Jacob M. Pixler  
415 E. Vine St. Apt. 207  
Milwaukee, WI 53212

("Assignors") confirm our obligation to and hereby irrevocably transfer, assign and convey unto Assignee, and its successors and assigns, our entire worldwide right, title, and interest, free and clear of all liens, encumbrances or other obligations:

(1) in and to the inventions and subject matter described, depicted, claimed, or otherwise disclosed ("the Inventions") in the patent application titled "SYSTEM AND METHOD FOR DETERMINING AN ABNORMAL CONDITION OF A WATER HEATER" for which we filed United States Patent Application No. 15/818,221, filed on November 20, 2017 (Atty. File No. 010121-2582-US01) (hereinafter the "U.S. non-provisional patent application");

(2) in and to the U.S. provisional application and all other patent applications now or hereafter filed in the United States of America (including, without limitation, any non-provisional, divisional, continuation, continuation-in-part, reexamination, and reissue applications) based upon the Inventions or claiming the benefit of or priority to the U.S. provisional patent application or any other patent application assigned under this Assignment, including all rights of priority based on such applications and the right to file such applications in the name of the Assignee,

and any and all patents granted thereon to the full end of the term or terms for which said patents may be granted;

(3) in and to all patent applications or other applications of any kind or nature relating to the protection of intellectual and industrial property rights, now or hereafter filed in countries foreign to the United States of America, based upon the Inventions or claiming the benefit of or priority to the U.S. provisional application or any other patent application assigned under this Assignment, including all rights of priority based on such applications and the right to file such applications in the name of the Assignee, and any and all patents granted thereon to the full end of the terms for which said patents may be granted;

(4) in and to all patent applications or other applications of any kind or nature relating to the protection of intellectual and industrial property rights now or hereafter filed under the Paris Convention for the Protection Of Industrial Property, the Patent Cooperation Treaty, and all other international conventions, agreements, treaties or laws relating to the protection of intellectual and industrial property based upon the Inventions or claiming the benefit of or priority to the U.S. provisional application or any other patent application assigned under this Assignment, including all rights of priority based on such applications and the right to file such applications in the name of the Assignee, and any and all patents granted thereon to the full end of the terms for which said patents may be granted;

(5) in and to all rights of any kind whatsoever of Assignor accruing before, on, or after the dates of execution below under any of the foregoing provisions provided by applicable law of any jurisdiction, by international treaties and conventions, and otherwise throughout the world, acknowledging that some rights may have already accrued to the Assignee under such applicable laws; and

(6) any and all claims and causes of action, with respect to any of the foregoing, whether accruing before, on, or after the dates of execution below, including all rights to and claims for damages, restitution and injunctive and other legal and equitable relief for past, present and future infringement, misappropriation, violation, misuse, breach or default, with the right but no obligation to sue for such legal and equitable relief and to collect, or otherwise recover, any such damages.


Assignors hereby authorize the Assignee or attorney of record to insert in the appropriate place in this document the application number of my application after execution of this Assignment. Assignor hereby agrees that Assignor will, upon demand of Assignee, its

successors, assigns, or legal representatives, and without further consideration to Assignors, execute any and all papers and do all other lawful acts that may be deemed necessary by Assignee, its successors, assigns, or legal representatives, to complete fulfillment of the intent and purposes of this Assignment in any country throughout the world. Any expenses incident to the execution of such papers and performance of such acts shall be paid by the Assignee, its successors, assigns, or legal representatives.

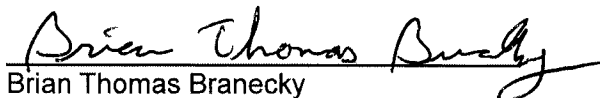
Assignors hereby authorize and request the Commissioner of the United States Patent and Trademark Office and the appropriate official of any foreign patent or intellectual property office to issue all patents as shall be granted upon the assigned patent applications to Assignee, its successors, assigns, or legal representatives.

IN TESTIMONY WHEREOF, the Assignors have executed this agreement.

DATED: 2/18/18

  
Ray Oliver Knoeppel

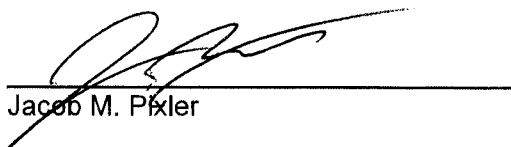
DATED: 2/16/18

  
Brian Thomas Branecky

DATED: \_\_\_\_\_

\_\_\_\_\_  
Geoffrey J. Behr

DATED: 2/16/18

  
Jacob M. Pixler

successors, assigns, or legal representatives, and without further consideration to Assignors, execute any and all papers and do all other lawful acts that may be deemed necessary by Assignee, its successors, assigns, or legal representatives, to complete fulfillment of the intent and purposes of this Assignment in any country throughout the world. Any expenses incident to the execution of such papers and performance of such acts shall be paid by the Assignee, its successors, assigns, or legal representatives.

Assignors hereby authorize and request the Commissioner of the United States Patent and Trademark Office and the appropriate official of any foreign patent or intellectual property office to issue all patents as shall be granted upon the assigned patent applications to Assignee, its successors, assigns, or legal representatives.

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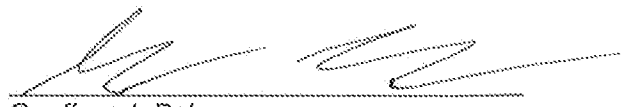
DATED: \_\_\_\_\_

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Ray Oliver Knoeppel

DATED: \_\_\_\_\_

\_\_\_\_\_  
Brian Thomas Branecky

DATED: 3/27/18

  
\_\_\_\_\_  
Geoffrey J. Behr

DATED: \_\_\_\_\_

\_\_\_\_\_  
Jacob M. Pixler