

## PATENT ASSIGNMENT COVER SHEET

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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>BERNIE C. THOMPSON</td> <td>05/23/2013</td> </tr> <tr> <td>NEAL R. PEDERSON</td> <td>05/23/2013</td> </tr> </tbody> </table>		Name	Execution Date	BERNIE C. THOMPSON	05/23/2013	NEAL R. PEDERSON	05/23/2013
Name	Execution Date						
BERNIE C. THOMPSON	05/23/2013						
NEAL R. PEDERSON	05/23/2013						
RECEIVING PARTY DATA							
Name:	ILLINOIS TOOL WORKS INC.						
Street Address:	155 HARLEM AVE.						
City:	GLENVIEW						
State/Country:	ILLINOIS						
Postal Code:	60025						
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>13837581</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13837581		
Property Type	Number						
Application Number:	13837581						
CORRESPONDENCE DATA							
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<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>							
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ATTORNEY DOCKET NUMBER:	62033 (500-2039US)						
NAME OF SUBMITTER:	CHRISTOPHER R. CARROLL						
Signature:	/Christopher R. Carroll/						
Date:	02/19/2014						
Total Attachments: 1 source=62033ExecutedAssignment19FEB2014#page1.tif							

**ASSIGNMENT**

For valuable and sufficient consideration from Illinois Tool Works Inc. (hereinafter referred to as "Assignee"), a Delaware corporation having its principal place of business at 3600 West Lake Avenue, Glenview, Illinois 60026-1215, receipt of such consideration being hereby acknowledged, I/we, **Bernie C. Thompson** and **Neal R. Pederson** hereby sell, assign and convey unto Assignee, its successors and assigns, my/our entire right, title and interest:

(1) in and to an invention entitled "**SYSTEM AND METHOD FOR ANALYZING CARBON BUILD UP IN AN ENGINE**" for which I/we have executed a PCT Patent Application on even date herewith, and, if applicable, which claims the benefit of United States Application No. 13/837,581, filed on 15-March-2013, and United States Provisional Application No(s). 61/663,341, filed on 22-June-2012, and 61/712,003, filed on 10-October-2012;

(2) in and to an invention entitled "**SYSTEM AND METHOD FOR ANALYZING CARBON BUILD UP IN AN ENGINE**" for which I/we previously filed United States Application No. 13/837,581, filed on 15-March-2013, which claims the benefit of United States Provisional Application No(s). 61/663,341 filed on 22-June-2012, and 61/712,003 filed on 10-October-2012;

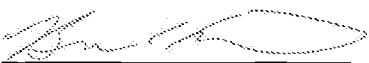
(3) in and to an invention entitled "**INDUCTION CLEANING ANALYZER**" for which I/we previously filed United States Provisional Application No(s). 61/663,341 on 22-June-2012, and in and to an invention entitled "**CARBON BUILD UP ANALYZER**" for which I/we previously filed United States Provisional Application No(s). 61/712,003 on 10-October-2012; and

(4) in and to said PCT Patent Application, United States Patent Application, and United States Provisional Applications and in and to all other patent applications now or hereafter filed in the United States and countries foreign to the United States (including divisional, continuation, reexamination, and reissue applications, and legal equivalents thereof) based upon said invention, and in and to the patent or patents granted thereon or issued therefrom, including reissues or the like thereof, if any, to the full end of the term or terms for which said patent or patents may be granted or issued.


I/we agree that any patent applications of any countries foreign to the United States which may be filed under any applicable international treaties and/or conventions based upon said invention(s) shall be filed in the name of Assignee with the right to claim priority to any earlier filed applications based upon said invention(s).

I/we hereby further agree that I/we shall, upon demand of Assignee, its successors or assigns, and without further consideration to me/us, execute any and all papers that may be necessary, or deemed by Assignee, its successors or assigns, to be necessary, to be a complete fulfillment of the intent and purposes of this Assignment, it being understood that any expense incident to the execution of such papers shall be paid by Assignee, its successors and assigns, and not by me/us.

I/we hereby further agree and authorize the Commissioner of Patents and Trademarks of the United States and all other appropriate government officials for applicable countries foreign to the United States to issue any and all above-identified patents to Assignee.

1)   
Name :Bernie C. Thompson

05/23/2013  
Date

2)   
Name: Neal R. Pederson

05/23/2013  
Date