

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT	
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT	
<b>CONVEYING PARTY DATA</b>		
	<b>Name</b>	<b>Execution Date</b>
	JOHN R. RUDY	10/26/2019
<b>RECEIVING PARTY DATA</b>		
<b>Name:</b>	MANITOWOC CRANE COMPANIES, LLC	
<b>Street Address:</b>	ONE PARK PLAZA, 11270 W. PARK PLACE	
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<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>
	Application Number:	15819369
<b>CORRESPONDENCE DATA</b>		
<b>Fax Number:</b>		
<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>		
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<b>Correspondent Name:</b>	KLINTWORTH & ROZENBLAT IP LLP	
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<b>ATTORNEY DOCKET NUMBER:</b>	41754-108358	
<b>NAME OF SUBMITTER:</b>	MICHAEL J. KYLE	
<b>SIGNATURE:</b>	/MICHAEL J. KYLE/	
<b>DATE SIGNED:</b>	08/24/2021	
<b>Total Attachments: 2</b>		
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**ASSIGNMENT**

WHEREAS, we, **John R. Rudy**, residing at 535 N. Allison Street, Greencastle, PA 17225, US and **Matthew Thoresen**, residing at 2488 Falling Spring Road, Chambersburg PA 17202, US and, have invented new and useful improvements in **OPTICAL DETECTION AND ANALYSIS FOR BOOM ANGLES ON A CRANE** and have executed an application for United States Letters Patent; and

WHEREAS, **Manitowoc Crane Companies, LLC**, a limited liability company organized and existing under the laws of Wisconsin, having a place of business at 2400 South 44<sup>th</sup> Street, Manitowoc, WI 54220, US, (hereinafter, "Assignee") is desirous of acquiring the entire right, title, and interest in and to said invention, said application, and in to and under all Letters Patent of the United States and foreign countries that may be granted therefor;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that for and in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration to us in hand and paid by said Assignee the receipt of which is hereby acknowledged, we, said **John R. Rudy** and **Matthew Thoresen**, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to and unto said Assignee, its successors and assigns, for, within and throughout the United States and the territories thereof, and all foreign countries, the entire right, title and interest in and to said invention, and in, to and under said application, and all Letters Patent of the United States and foreign countries that may be granted for said invention and improvements, including divisions, reissues, subdivisions, continuations and prolongations of such applications and Letters Patent, to have and to hold for the sole and exclusive use and benefit of said Assignee, its successors and assigns, to the full end of the term or terms for which any and all of said Letters Patent for said invention may issue, and further, including the right to Assignee to file in its name applications for Letters Patent to said improvements in any country or countries foreign to the United States including the full right to claim for any such applications the priority benefits of the International Convention for the Protection of Industrial Property and other priority conferring treaties, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof.

We do hereby covenant and agree, for ourselves, heirs and legal representatives, that we will assist said Assignee in the prosecution of the application herein identified; in the making and prosecution of any other applications for Letters Patent that said Assignee may elect to make covering the invention herein identified, as hereinbefore set forth; in vesting in said Assignee, like exclusive title in and to all such other applications and Letters Patent; and in the prosecution of any interference which may arise

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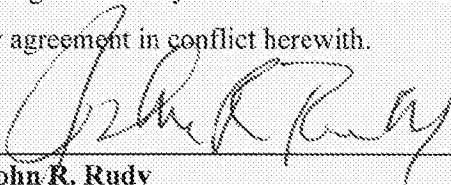
Filed: November 21, 2017

involving said invention, or any application or Letters Patent herein contemplated; and that we will execute and deliver to said Assignee, any and all additional papers that may be requested by said Assignee, to fully carry out the terms of this assignment.

And we do hereby authorize and request the Commissioner of Patents to issue all Letters Patent of the United States that may be granted pursuant to application aforesaid, or for said invention, to said Assignee, its successors and assigns in accordance with this assignment.

And we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith.

10/26/19  
Date

  
John R. Rudy

\_\_\_\_\_  
Date

\_\_\_\_\_  
Matthew Thoresen

Assignee:

Date: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

For: **Manitowoc Crane Companies, LLC**