

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4726178

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DAVID A. ROBERTSON	06/15/2015
TIMOTHY J. ALBINGER	06/05/2017
DERRICK L. GEISER	06/05/2017
WILLIAM J. O'NEIL	06/05/2017
JOSEPH R. RUCINSKI	06/06/2017
JOHN W. TAYLOR	06/05/2017
JOEL D. ZICK	06/05/2017
JONATHAN M. BORLEE	06/14/2017
INGO NOESKE	07/07/2017
BRIAN N. NYSSE	09/22/2017
BRANDON D. RESCH	11/16/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	MANITOWOC CRANE COMPANIES, LLC
<b>Street Address:</b>	2400 SOUTH 44TH STREET
<b>City:</b>	MANITOWOC
<b>State/Country:</b>	WISCONSIN
<b>Postal Code:</b>	54221
<b>PROPERTY NUMBERS Total: 4</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	14606804
<b>Application Number:</b>	62073839
<b>Application Number:</b>	61931948
<b>PCT Number:</b>	US1513039
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(832)900-4941
<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>	713-426-3923
<b>Email:</b>	cbuschmann@rameyfirm.com

**Correspondent Name:** CRAIG BUSCHMANN  
**Address Line 1:** 5020 MONTROSE BLVD.  
**Address Line 2:** STE. 750  
**Address Line 4:** HOUSTON, TEXAS 77006

**ATTORNEY DOCKET NUMBER:** 20137.0012.NPUS00 & 01

**NAME OF SUBMITTER:** CRAIG BUSCHMANN

**SIGNATURE:** /Craig Buschmann/

**DATE SIGNED:** 12/08/2017

**Total Attachments: 23**

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**ASSIGNMENT**

WHEREAS, Timothy J. Albinger, Jonathan M. Borlee, Derrick L. Geiser, Ingo Noeske, Brian N. Nysse, William J. O'Neil, Brandon D. Resch, David A. Robertson, Joseph R. Rucinski, John W. Taylor, and Joel D. Zick, hereinafter called the "Assignors," have made the invention described in the United States patent application entitled HEIGHT ADJUSTMENT MECHANISM FOR AN AUXILIARY MEMBER ON A CRANE, being identified as United States Patent Application No. 62/073,839, filed October 31, 2014; the invention described in the United States patent application entitled LIFT CRANE WITH IMPROVED MOVABLE COUNTERWEIGHT, being identified as United States Patent Application No. 61/931,948, filed January 27, 2014; the invention described in the United States patent application entitled HEIGHT ADJUSTMENT MECHANISM FOR AN AUXILIARY MEMBER ON A CRANE, being identified as United States Patent Application No. 14/606,804, filed January 27, 2015; and the invention described in the International patent application entitled HEIGHT ADJUSTMENT MECHANISM FOR AN AUXILIARY MEMBER ON A CRANE, being identified as Patent Cooperation Treaty Patent Application No. PCT/US15/13039, filed January 27, 2015;

WHEREAS, Manitowoc Crane Companies, LLC, a corporation organized and existing under the laws of the state of Wisconsin, having a place of business at 2400 South 44<sup>th</sup> Street, Manitowoc, Wisconsin 54221, hereinafter called the "Assignee", desires to acquire the entire right, title and interest in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, in consideration of legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents issuing therefrom in all countries foreign to the United States, including the full right to claim for

any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; together with the right to recover all damages, including, but not limited to, a reasonable royalty, by reason of past, present, or future infringement or any other violation of patent or patent application rights; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents. The Assignors hereby sell, assign, and transfer the entire right, title and interest to the Assignee as of the day of filing the application identified above.

The Assignors hereby covenant and agree, for both the Assignors and the Assignors' legal representatives, that the Assignors will assist the Assignee in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in vesting in the Assignee like exclusive title in and to all such other patent applications and patents; and in the prosecution of any interference which may arise involving said invention, or any such patent application or patent; and that the Assignor will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, David A. Robertson has executed this agreement.

DATED: 15 JUNE 2015 David Robertson  
David A. Robertson

STATE OF WI )  
COUNTY OF Manitowoc ) ss.

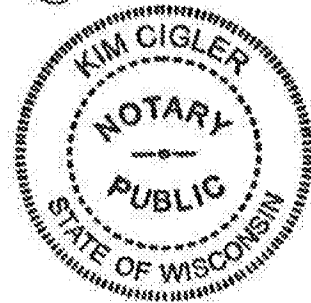
I, Kim Cigler, a Notary Public in and for the County and State aforesaid, do hereby certify that David A. Robertson, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered the said instrument as his free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this 15 day of June, 2015.

Kim Cigler  
Notary Public

My Commission Expires:

June 2, 2017



ASSIGNMENT

WHEREAS, Timothy J. Albinger, Jonathan M. Borlee, Derrick L. Geiser, Ingo Noeske, Brian N. Nysse, William J. O'Neil, Brandon D. Resch, David A. Robertson, Joseph R. Rucinski, John W. Taylor, and Joel D. Zick, hereinafter called the "Assignors," have made the invention described in the United States patent application entitled HEIGHT ADJUSTMENT MECHANISM FOR AN AUXILIARY MEMBER ON A CRANE, being identified as United States Patent Application No. 62/073,839, filed October 31, 2014; the invention described in the United States patent application entitled LIFT CRANE WITH IMPROVED MOVABLE COUNTERWEIGHT, being identified as United States Patent Application No. 61/931,948, filed January 27, 2014; the invention described in the United States patent application entitled HEIGHT ADJUSTMENT MECHANISM FOR AN AUXILIARY MEMBER ON A CRANE, being identified as United States Patent Application No. 14/606,804, filed January 27, 2015; and the invention described in the international patent application entitled HEIGHT ADJUSTMENT MECHANISM FOR AN AUXILIARY MEMBER ON A CRANE, being identified as Patent Cooperation Treaty Patent Application No. PCT/US15/13039, filed January 27, 2015;

WHEREAS, Manitowoc Crane Companies, LLC, a corporation organized and existing under the laws of the state of Wisconsin, having a place of business at 2400 South 44<sup>th</sup> Street, Manitowoc, Wisconsin 54221, hereinafter called the "Assignee", desires to acquire the entire right, title and interest in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, in consideration of legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents issuing therefrom in all countries foreign to the United States, including the full right to claim for

any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; together with the right to recover all damages, including, but not limited to, a reasonable royalty, by reason of past, present, or future infringement or any other violation of patent or patent application rights; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents. The Assignors hereby sell, assign, and transfer the entire right, title and interest to the Assignee as of the day of filing the application identified above.

The Assignors hereby covenant and agree, for both the Assignors and the Assignors' legal representatives, that the Assignors will assist the Assignee in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in vesting in the Assignee like exclusive title in and to all such other patent applications and patents; and in the prosecution of any interference which may arise involving said invention, or any such patent application or patent; and that the Assignor will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, Timothy J. Albinger has executed this agreement.

DATED: 6-5-17

[Signature]  
Timothy J. Albinger

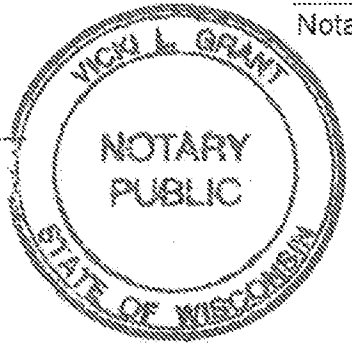
STATE OF Wisconsin )  
COUNTY OF Manitowoc ) ss.

I, Vicki L. Grant, a Notary Public in and for the County and State aforesaid, do hereby certify that Timothy J. Albinger, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered the said instrument as his free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this 5 day of June, 2017.

Vicki L. Grant  
Notary Public

My Commission Expires:  
7/20/21





IN TESTIMONY WHEREOF, Derrick L. Geiser has executed this agreement.

DATED: 6/5/17 Derrick L. Geiser  
Derrick L. Geiser

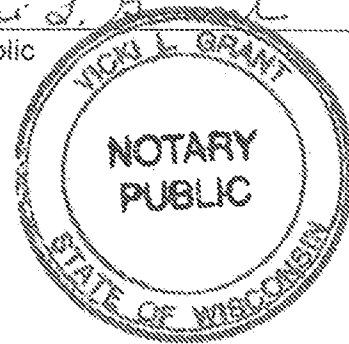
STATE OF Wisconsin )  
COUNTY OF Manitowoc ) ss.

I, Vicki L. Grant, a Notary Public in and for the County and State aforesaid, do hereby certify that Derrick L. Geiser, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered the said instrument as his free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this 5 day of June, 2017.

Vicki L. Grant  
Notary Public

My Commission Expires:  
4/20/21



IN TESTIMONY WHEREOF, William J. O'Neil has executed this agreement.

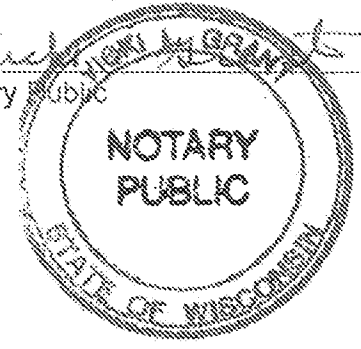
DATED: 06/05/2017 *[Signature]*  
William J. O'Neil

STATE OF Wisconsin )  
                                  ) ss.  
COUNTY OF Manitowish )  
Vicki L. Grant

I, *[Signature]*, a Notary Public in and for the County and State aforesaid, do hereby certify that William J. O'Neil, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered the said instrument as his free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this 5 day of June, 2017

*[Signature]*  
Notary Public



My Commission Expires:  
4/20/21

IN TESTIMONY WHEREOF, Joseph R. Rucinski has executed this agreement.

DATED: June 6, 2017

*(Signature)*  
Joseph R. Rucinski

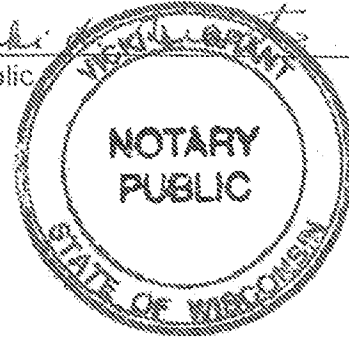
STATE OF Wisconsin )  
                                      ) ss.  
COUNTY OF Manitowish )

I, Vicki L. Grant, a Notary Public in and for the County and State aforesaid, do hereby certify that Joseph R. Rucinski, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered the said instrument as his free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this 6<sup>th</sup> day of June, 2017.

Vicki L. Grant  
Notary Public

My Commission Expires:  
4/20/21



IN TESTIMONY WHEREOF, John W. Taylor has executed this agreement.

DATED: 6/5/17 John W. Taylor  
John W. Taylor

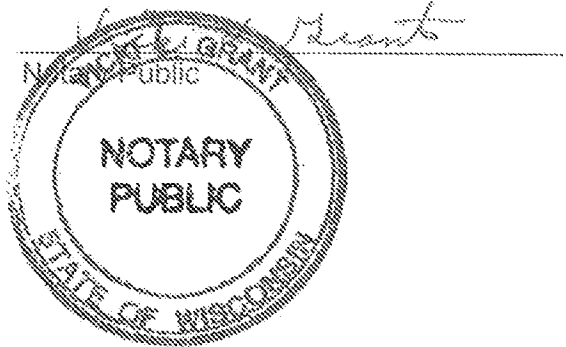
STATE OF Wisconsin )  
COUNTY OF Manitowish ) ss.

I, Vicki L. Grant, a Notary Public in and for the County and State aforesaid, do hereby certify that John W. Taylor, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered the said instrument as his free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this 5 day of June, 2017.

My Commission Expires:

4/30/21



IN TESTIMONY WHEREOF, Joel D. Zick has executed this agreement.

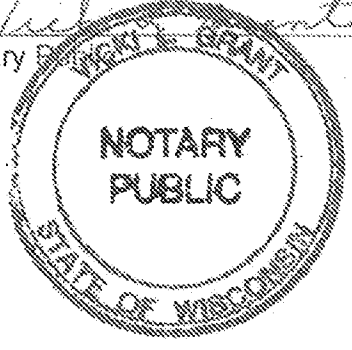
DATED: 05 JUN 2017  
\_\_\_\_\_ Joel D. Zick \_\_\_\_\_  
Joel D. Zick

STATE OF Wisconsin )  
COUNTY OF Manitowoc ) ss.

I, Vicki L. Grant, a Notary Public in and for the County and State aforesaid, do hereby certify that Joel D. Zick, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered the said instrument as his free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this 5 day of June, 2015: 2017.

Vicki L. Grant  
\_\_\_\_\_  
Notary Public



My Commission Expires:  
4/20/21

**ASSIGNMENT**

WHEREAS, Timothy J. Albinger, Jonathan M. Borlee, Derrick L. Geiser, Ingo Noeske, Brian N. Nysse, William J. O'Neil, Brandon D. Resch, David A. Robertson, Joseph R. Rucinski, John W. Taylor, and Joel D. Zick, hereinafter called the "Assignors," have made the invention described in the United States patent application entitled HEIGHT ADJUSTMENT MECHANISM FOR AN AUXILIARY MEMBER ON A CRANE, being identified as United States Patent Application No. 62/073,839, filed October 31, 2014; the invention described in the United States patent application entitled LIFT CRANE WITH IMPROVED MOVABLE COUNTERWEIGHT, being identified as United States Patent Application No. 61/931,948, filed January 27, 2014; the invention described in the United States patent application entitled HEIGHT ADJUSTMENT MECHANISM FOR AN AUXILIARY MEMBER ON A CRANE, being identified as United States Patent Application No. 14/606,804, filed January 27, 2015; and the invention described in the International patent application entitled HEIGHT ADJUSTMENT MECHANISM FOR AN AUXILIARY MEMBER ON A CRANE, being identified as Patent Cooperation Treaty Patent Application No. PCT/US15/13039, filed January 27, 2015;

WHEREAS, Manitowoc Crane Companies, LLC, a corporation organized and existing under the laws of the state of Wisconsin, having a place of business at 2400 South 44<sup>th</sup> Street, Manitowoc, Wisconsin 54221, hereinafter called the "Assignee", desires to acquire the entire right, title and interest in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, in consideration of legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents issuing therefrom in all countries foreign to the United States, including the full right to claim for

any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; together with the right to recover all damages, including, but not limited to, a reasonable royalty, by reason of past, present, or future infringement or any other violation of patent or patent application rights; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents. The Assignors hereby sell, assign, and transfer the entire right, title and interest to the Assignee as of the day of filing the application identified above.

The Assignors hereby covenant and agree, for both the Assignors and the Assignors' legal representatives, that the Assignors will assist the Assignee in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in vesting in the Assignee like exclusive title in and to all such other patent applications and patents; and in the prosecution of any interference which may arise involving said invention, or any such patent application or patent; and that the Assignor will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.





**ASSIGNMENT**

WHEREAS, Timothy J. Albinger, Jonathan M. Borlee, Derrick L. Geiser, Ingo Noeske, Brian N. Nysse, William J. O'Neil, Brandon D. Resch, David A. Robertson, Joseph R. Rucinski, John W. Taylor, and Joel D. Zick, hereinafter called the "Assignors," have made the invention described in the United States patent application entitled HEIGHT ADJUSTMENT MECHANISM FOR AN AUXILIARY MEMBER ON A CRANE, being identified as United States Patent Application No. 62/073,839, filed October 31, 2014; the invention described in the United States patent application entitled LIFT CRANE WITH IMPROVED MOVABLE COUNTERWEIGHT, being identified as United States Patent Application No. 61/931,948, filed January 27, 2014; the invention described in the United States patent application entitled HEIGHT ADJUSTMENT MECHANISM FOR AN AUXILIARY MEMBER ON A CRANE, being identified as United States Patent Application No. 14/606,804, filed January 27, 2015; and the invention described in the International patent application entitled HEIGHT ADJUSTMENT MECHANISM FOR AN AUXILIARY MEMBER ON A CRANE, being identified as Patent Cooperation Treaty Patent Application No. PCT/US15/13039, filed January 27, 2015;

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NOW, THEREFORE, in consideration of legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents issuing therefrom in all countries foreign to the United States, including the full right to claim for

any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; together with the right to recover all damages, including, but not limited to, a reasonable royalty, by reason of past, present, or future infringement or any other violation of patent or patent application rights; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents. The Assignors hereby sell, assign, and transfer the entire right, title and interest to the Assignee as of the day of filing the application identified above.

The Assignors hereby covenant and agree, for both the Assignors and the Assignors' legal representatives, that the Assignors will assist the Assignee in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in vesting in the Assignee like exclusive title in and to all such other patent applications and patents; and in the prosecution of any interference which may arise involving said invention, or any such patent application or patent; and that the Assignor will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, Ingo Noeske has executed this agreement.

DATED: 07/07/2017

  
Ingo Noeske

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

\_\_\_\_\_  
Witness 1 Signature

\_\_\_\_\_  
Witness 1 Printed Name

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

\_\_\_\_\_  
Witness 2 Signature

\_\_\_\_\_  
Witness 2 Printed Name

ASSIGNMENT

WHEREAS, Timothy J. Albinger, Jonathan M. Borlee, Derrick L. Geiser, Ingo Noeske, Brian N. Nysse, William J. O'Neil, Brandon D. Resch, David A. Robertson, Joseph R. Rucinski, John W. Taylor, and Joel D. Zick, hereinafter called the "Assignors," have made the invention described in the United States patent application entitled HEIGHT ADJUSTMENT MECHANISM FOR AN AUXILIARY MEMBER ON A CRANE, being identified as United States Patent Application No. 62/073,839, filed October 31, 2014; the invention described in the United States patent application entitled LIFT CRANE WITH IMPROVED MOVABLE COUNTERWEIGHT, being identified as United States Patent Application No. 61/931,948, filed January 27, 2014; the invention described in the United States patent application entitled HEIGHT ADJUSTMENT MECHANISM FOR AN AUXILIARY MEMBER ON A CRANE, being identified as United States Patent Application No. 14/606,804, filed January 27, 2015; and the invention described in the International patent application entitled HEIGHT ADJUSTMENT MECHANISM FOR AN AUXILIARY MEMBER ON A CRANE, being identified as Patent Cooperation Treaty Patent Application No. PCT/US15/13039, filed January 27, 2015;

WHEREAS, Manitowoc Crane Companies, LLC, a corporation organized and existing under the laws of the state of Wisconsin, having a place of business at 2400 South 44<sup>th</sup> Street, Manitowoc, Wisconsin 54221, hereinafter called the "Assignee", desires to acquire the entire right, title and interest in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, in consideration of legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents issuing therefrom in all countries foreign to the United States, including the full right to claim for

any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; together with the right to recover all damages, including, but not limited to, a reasonable royalty, by reason of past, present, or future infringement or any other violation of patent or patent application rights; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents. The Assignors hereby sell, assign, and transfer the entire right, title and interest to the Assignee as of the day of filing the application identified above.

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The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, Brian N. Nysse has executed this agreement.

DATED: 9-22-17

Brian N. Nysse

STATE OF Minnesota )  
COUNTY OF Washington ) ss.

I, Kristina M. Hilde, a Notary Public in and for the County and State aforesaid, do hereby certify that Brian N. Nysse, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered the said instrument as his free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal, this 22 day of September, 2017.

Kristina M. Hilde  
Notary Public

My Commission Expires:

Jan. 31, 2022



**ASSIGNMENT**

WHEREAS, Timothy J. Albinger, Jonathan M. Borlee, Derrick L. Geiser, Ingo Noeske, Brian N. Nysse, William J. O'Neil, Brandon D. Resch, David A. Robertson, Joseph R. Rucinski, John W. Taylor, and Joel D. Zick, hereinafter called the "Assignors," have made the invention described in the United States patent application entitled HEIGHT ADJUSTMENT MECHANISM FOR AN AUXILIARY MEMBER ON A CRANE, being identified as United States Patent Application No. 62/073,839, filed October 31, 2014; the invention described in the United States patent application entitled LIFT CRANE WITH IMPROVED MOVABLE COUNTERWEIGHT, being identified as United States Patent Application No. 61/931,948, filed January 27, 2014; the invention described in the United States patent application entitled HEIGHT ADJUSTMENT MECHANISM FOR AN AUXILIARY MEMBER ON A CRANE, being identified as United States Patent Application No. 14/606,804, filed January 27, 2015; and the invention described in the International patent application entitled HEIGHT ADJUSTMENT MECHANISM FOR AN AUXILIARY MEMBER ON A CRANE, being identified as Patent Cooperation Treaty Patent Application No. PCT/US15/13039, filed January 27, 2015;

WHEREAS, Manitowoc Crane Companies, LLC, a corporation organized and existing under the laws of the state of Wisconsin, having a place of business at 2400 South 44<sup>th</sup> Street, Manitowoc, Wisconsin 54221, hereinafter called the "Assignee", desires to acquire the entire right, title and interest in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, in consideration of legally sufficient consideration, the receipt of which by the Assignors from the Assignee is hereby acknowledged, the Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents issuing therefrom in all countries foreign to the United States, including the full right to claim for

any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; together with the right to recover all damages, including, but not limited to, a reasonable royalty, by reason of past, present, or future infringement or any other violation of patent or patent application rights; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents. The Assignors hereby sell, assign, and transfer the entire right, title and interest to the Assignee as of the day of filing the application identified above.

The Assignors hereby covenant and agree, for both the Assignors and the Assignors' legal representatives, that the Assignors will assist the Assignee in the prosecution of the patent application identified above; in the making and prosecution of any other patent applications that the Assignee may elect to make covering the invention identified above; in vesting in the Assignee like exclusive title in and to all such other patent applications and patents; and in the prosecution of any interference which may arise involving said invention, or any such patent application or patent; and that the Assignor will execute and deliver to the Assignee any and all additional papers which may be requested by the Assignee to carry out the terms of this Assignment.

The Commissioner of Patents and Trademarks is hereby authorized and requested to issue patents to the Assignee in accordance with the terms of this Assignment.




IN TESTIMONY WHEREOF, Brandon D. Resch has executed this agreement.

DATED: 11/16/17 \_\_\_\_\_  
  
Brandon D. Resch

STATE OF \_\_\_\_\_ )  
COUNTY OF Lanola ) ss.

I, Beth Husnick, a Notary Public in and for the County and State aforesaid, do hereby certify that Brandon D. Resch, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered the said instrument as his free and voluntary act for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and Notarial Seal,  
this 16 day of November, 2017

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

My Commission Expires:  
1-17-20

