

## PATENT ASSIGNMENT

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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>Xiaolan Ai</td> <td>09/11/2012</td> </tr> <tr> <td>Matthew Wilmer</td> <td>09/11/2012</td> </tr> <tr> <td>Randy P Kruse</td> <td>08/16/2012</td> </tr> <tr> <td>Ryan Forbes</td> <td>08/10/2012</td> </tr> <tr> <td>Curtis Orkin</td> <td>08/10/2012</td> </tr> </tbody> </table>		Name	Execution Date	Xiaolan Ai	09/11/2012	Matthew Wilmer	09/11/2012	Randy P Kruse	08/16/2012	Ryan Forbes	08/10/2012	Curtis Orkin	08/10/2012
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RECEIVING PARTY DATA													
Name:	The Timken Company												
Street Address:	1835 Dueber Avenue S.W.												
City:	Canton												
State/Country:	OHIO												
Postal Code:	44706-0930												
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>13577562</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13577562								
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Application Number:	13577562												
CORRESPONDENCE DATA													
Fax Number:	3142382401												
Phone:	314-238-2400												
Email:	patents@polsterlieder.com												
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>													
Correspondent Name:	J. Joseph Muller												
Address Line 1:	12412 Powerscourt Drive												
Address Line 2:	Suite 200												
Address Line 4:	St. Louis, MISSOURI 63131												
ATTORNEY DOCKET NUMBER:	TIMK D582W1												
NAME OF SUBMITTER:	J. Joseph Muller												

PATENT

**Total Attachments: 8**

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## ASSIGNMENT

WHEREAS, we, **Xiaolan Ai**, a citizen of the United States of America and a resident of the City of Massillon, State of Ohio, whose post office address is 4480 Noble Loon, Massillon, Ohio 44646, **Curt Orkin**, a citizen of the United States of America and a resident of the City of West Hartford, in the State of Connecticut, whose full post office address is 84 Bonny View Road, West Hartford, Connecticut 06107, **Randy P. Kruse**, a citizen of the United States of America and a resident of the City of North Canton, in the State of Ohio, whose full post office address is 1510 Radford Street NE, North Canton, Ohio 44720, **Ryan Forbes**, a citizen of the United States of America and a resident of the City of Massillon, in the State of Ohio, whose full post office address is 2843 12<sup>th</sup> Street NW, Massillon, Ohio 44646, and **Matthew Wilmer**, a citizen of the United States of America and a resident of the City of North Canton, in the State of Ohio, whose full post office address is 6868 Oakcrest NW, North Canton, Ohio 44720, have invented certain improvements in **EPICYCLICAL GEAR TRANSMISSION WITH IMPROVED LOAD CARRYING CAPABILITY** which forms the subject matter of International Patent Application No. PCT/US2011/24446 filed February 11 2011, and derives priority from and otherwise claims the benefit of United States Provisional Patent Application No. 61/303,941, filed February 12, 2010, and United States Non-Provisional Patent Application No. 13/577,562, filed August 7, 2012, and is further identified as Attorney's Docket No. TIMK D582W1;

AND, WHEREAS, The Timken Company, an Ohio Corporation, with offices at 1835 Dueber Avenue S.W., Canton, Ohio 44706-0930, is desirous of acquiring the entire right, title and interest in and to said improvements in **EPICYCLICAL GEAR TRANSMISSION WITH IMPROVED LOAD CARRYING CAPABILITY** and all patent rights therefor;

NOW, THEREFORE, in consideration of One Hundred Dollars (\$100.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, we, said **Xiaolan Ai**, **Curt Orkin**, **Randy P. Kruse**, **Ryan Forbes** and **Matthew Wilmer**, do hereby sell, assign, transfer and set over unto The Timken Company the entire right, title and interest in and to said improvements, and in and to all Letters Patent and patent rights which may be granted or issued for said improvements, in the United States and all foreign countries, and any reissue, reexamination, continuation, continuation-in-part, division, or extension thereof, the same to be held and enjoyed by The Timken Company, a corporation, its successors and assigns, as fully and entirely as the same would have been held and enjoyed by us if this Assignment and sale had not been made; and we agree to execute such further applications, declarations, powers of attorney, assignments and other documents as may be necessary or desirable to effectuate this Agreement.

AND WE DO HEREBY authorize and request the Commissioner of Patents and Trademarks to issue said Letters Patent, when granted, to The Timken Company, a corporation, its successors and assigns, as assignees of the entire right, title and interest in and to said improvements, for the sole use and behalf of The Timken Company, a corporation, and for its successors and assigns, to the full ends of the terms for which Letters Patent may be granted.

AND WE further grant to The Timken Company, a corporation, its successors and assigns, the right to claim for any application for patent for said improvements the full benefit of any international agreement between the United States and any foreign country or countries.

Date: Sept 11, 2012 \_\_\_\_\_  
**Xiaolan Ai, Inventor**

Date: \_\_\_\_\_  
**Curt Orkin, Inventor**

Date: \_\_\_\_\_  
**Randy P. Kruse, Inventor**

Date: \_\_\_\_\_  
**Ryan Forbes, Inventor**

Date: SEPT 11, 2012 \_\_\_\_\_  
**Matthew Wilmer, Inventor**

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Date: \_\_\_\_\_  
Xiaolan Ai, Inventor

Date: \_\_\_\_\_  
Curt Orkin, Inventor

Date: 8/16/2012  
  
Randy P. Kruse, Inventor

Date: \_\_\_\_\_  
Ryan Forbes, Inventor

Date: \_\_\_\_\_  
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Date: \_\_\_\_\_  
Xiaolan Ai, Inventor

Date: \_\_\_\_\_  
Curt Orkin, Inventor

Date: \_\_\_\_\_  
Randy P. Kruse, Inventor

Date: 8-10-12  
  
Ryan Forbes, Inventor

Date: \_\_\_\_\_  
Matthew Wilmer, Inventor



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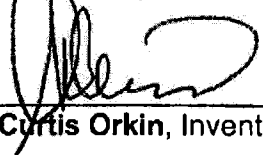
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Date: \_\_\_\_\_

\_\_\_\_\_  
Xiaolan Ai, Inventor

Date: 10 Aug 2012

  
\_\_\_\_\_  
Curtis Orkin, Inventor

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

\_\_\_\_\_  
Randy P. Kruse, Inventor

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

\_\_\_\_\_  
Ryan Forbes, Inventor

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

\_\_\_\_\_  
Matthew Wilmer, Inventor