

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT3648698

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| JAMES BOSTON | 12/08/2015 |
| ERIC J. MANNING | 12/08/2015 |
| BENJAMIN D. NAUMAN | 12/08/2015 |
| RECEIVING PARTY DATA | |
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| Postal Code: | 61629 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14962775 |
| CORRESPONDENCE DATA | |
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| NAME OF SUBMITTER: | J. KARL GROSS |
| SIGNATURE: | /J. Karl Gross/ |
| DATE SIGNED: | 12/08/2015 |
| Total Attachments: 4 | |
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| source=Executed Assignment#page2.tif | |
| source=Executed Assignment#page3.tif | |

ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

HYDRAULIC SYSTEM FOR A TORQUE CONVERTER

for which I/We will or have filed a patent application; and

WHEREAS, **Caterpillar Inc.**, a corporation of **Delaware** whose post office address is **100 N.E. Adams Street, Peoria, IL 61629** (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, and in and to the patent application for this invention and any and all patents to be issued upon this application throughout the world;

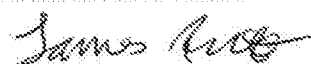
NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/We, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention, and this application, and all divisions, and continuations thereof, and all patents which may be granted thereon, and all reissues thereof, as well as all rights to claim priority in any country or jurisdiction or patent office on the basis of this application, and all applications for patents which may hereafter be filed for this invention in any country or jurisdiction or patent office and all patents which may be granted on this invention in any country or jurisdiction or patent office, and all extensions, renewals, and reissues thereof; and I/We hereby authorize and request any official of any country or jurisdiction or patent office whose duty it is to issue patents on applications as described above, to issue all patents for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;


AND, I/WE HEREBY covenant that I/We have the full right to convey the interest assigned by this Assignment, and I/We have not executed and will not execute any agreement in conflict with this Assignment;

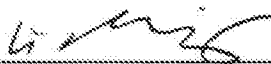
AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in any country or jurisdiction or patent office, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns;

AND, I/WE HEREBY authorize Assignee or the attorneys/representatives of Assignee to insert here in parentheses the country, application number, and official filing date (U.S. Patent Application No. 14/962,775, filed December 8, 2015).

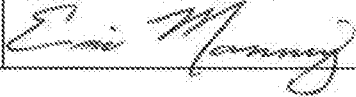
IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

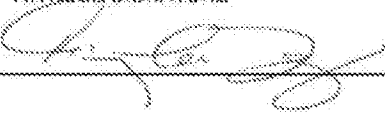
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| 1. FULL NAME OF SOLE OR FIRST ASSIGNOR James Boston | ASSIGNOR'S SIGNATURE  | DATE 8 DEC 2015 |
| ADDRESS 1929 W. GENEVA RD | | CITIZENSHIP UK |
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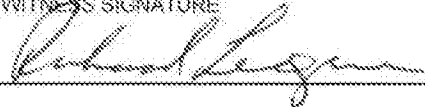
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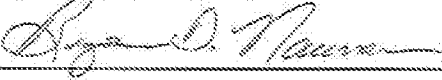
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SOLE/JOINT INVENTION
(Worldwide Rights)
Attorney Docket No. 721888
Client Ref. No. 15-0468


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| 1. FULL NAME OF THIRD ASSIGNOR, IF ANY Benjamin D. Nauman | ASSIGNOR'S SIGNATURE  | DATE 8 Dec 2015 |
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| 2. WITNESS NAME Richard D. Walker | WITNESS SIGNATURE  | DATE Dec 08 2015 |
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