

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4521209

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| PERRY CONVERSE | 07/10/2017 |
| MAURICE DUST | 07/10/2017 |
| XUEFEI HU | 07/10/2017 |
| YONG SUN | 07/10/2017 |
| YANCHAI ZHANG | 07/10/2017 |
| RECEIVING PARTY DATA | |
| Name: | CATERPILLAR INC. |
| Street Address: | 100 NE ADAMS ST |
| City: | PEORIA |
| State/Country: | ILLINOIS |
| Postal Code: | 61629 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15660081 |
| CORRESPONDENCE DATA | |
| Fax Number: | (309)675-1236 |
| <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> | |
| Phone: | 3096362223 |
| Email: | US_Docket_Clerk@cat.com |
| Correspondent Name: | CATERPILLAR INC./GUTWEIN LAW INTELLECTUA |
| Address Line 1: | 100 N.E. ADAMS STREET |
| Address Line 2: | AH 9510 |
| Address Line 4: | PEORIA, ILLINOIS 61629-9510 |
| ATTORNEY DOCKET NUMBER: | 16627.0017 |
| NAME OF SUBMITTER: | KELLY J. SMITH |
| SIGNATURE: | /Kelly J. Smith/ |
| DATE SIGNED: | 07/26/2017 |
| Total Attachments: 6 | |

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ASSIGNMENT

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

SYSTEM AND METHOD FOR DETECTING WEAR OR FAILURE OF GENSET POWER SYSTEM COUPLING for which I/We will or have filed a patent application; and

WHEREAS, **Caterpillar Inc.**, a corporation of **Illinois** whose post office address is **100 NE Adams St., 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 the attorneys/representatives that I/WE have empowered to prosecute this application to insert here in parentheses the country, application number, and official filing date (_____ Application No. _____, filed _____).

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

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|--|--|-------------------|
| 3. FULL NAME OF SECOND ASSIGNOR, IF ANY Perry D. Converse | ASSIGNOR'S SIGNATURE <i>Perry D. Converse</i> | DATE 7/10/2017 |
| ADDRESS 5645 Roseberry Ridge, Lafayette, IN 47905 | | CITIZENSHIP US |

| | | |
|---|--|--------------------|
| 1. WITNESS NAME <i>JEFFREY D. ISMAY</i> | WITNESS SIGNATURE <i>Jeffrey D. Ismay</i> | DATE 7/10/2017 |
| ADDRESS <i>5860 MANNING RD. INDIANAPOLIS IN. 46228</i> | | CITIZENSHIP USA |

| | | |
|--|---|--------------------|
| 2. WITNESS NAME <i>Mark C Paul</i> | WITNESS SIGNATURE <i>Mark C Paul</i> | DATE 7/10/2017 |
| ADDRESS <i>5066 Crenshaw Ct Carmel IN 46033</i> | | CITIZENSHIP USA |

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| 4. FULL NAME OF SECOND ASSIGNOR, IF ANY Xuefei Hu | ASSIGNOR'S SIGNATURE | DATE |
| ADDRESS | | CITIZENSHIP |

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| 1. WITNESS NAME | WITNESS SIGNATURE | DATE |
| ADDRESS | | CITIZENSHIP |

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|-----------------|-------------------|-------------|
| 2. WITNESS NAME | WITNESS SIGNATURE | DATE |
| ADDRESS | | CITIZENSHIP |

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|---|----------------------|--------------------------|
| 1. FULL NAME OF SOLE OR FIRST ASSIGNOR Yanchai Zhang | ASSIGNOR'S SIGNATURE | DATE |
| ADDRESS 731 S. Breckenridge Dr., Dunlap, IL 61525 | | CITIZENSHIP P.R.CHINA |

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| 1. WITNESS NAME | WITNESS SIGNATURE | DATE |
| ADDRESS | | CITIZENSHIP |

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|-----------------|-------------------|-------------|
| 2. WITNESS NAME | WITNESS SIGNATURE | DATE |
| ADDRESS | | CITIZENSHIP |

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|---|---|-------------------|
| 2. FULL NAME OF SECOND ASSIGNOR, IF ANY Maurice Dust | ASSIGNOR'S SIGNATURE <i>Maurice Dust</i> | DATE 7/20/17 |
| ADDRESS 6020 N. Smith Rd., Edwards, IL 61528 | | CITIZENSHIP US |

| | | |
|--|---|------------------------------|
| 1. WITNESS NAME <i>Geoffrey G. Zee</i> | WITNESS SIGNATURE <i>Geoffrey G. Zee</i> | DATE 7/20/17 |
| ADDRESS <i>601 Scott Wood DR, PEORIA IL 61615</i> | | CITIZENSHIP <i>U.S.A.</i> |

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|---|--|--------------------------|
| 2. WITNESS NAME <i>Andrew Skell</i> | WITNESS SIGNATURE <i>Andrew Skell</i> | DATE 7/20/17 |
| ADDRESS <i>6 Oxford Ct, Washington, IL 61571</i> | | CITIZENSHIP <i>US</i> |

| | | |
|--|----------------------|-------------------|
| 3. FULL NAME OF SECOND ASSIGNOR, IF ANY Perry D. Converse | ASSIGNOR'S SIGNATURE | DATE |
| ADDRESS 5645 Roseberry Ridge, Lafayette, IN 47905 | | CITIZENSHIP US |

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| 1. WITNESS NAME | WITNESS SIGNATURE | DATE |
| ADDRESS | | CITIZENSHIP |

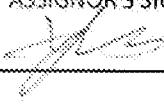
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| 2. WITNESS NAME | WITNESS SIGNATURE | DATE |
| ADDRESS | | CITIZENSHIP |

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| 4. FULL NAME OF SECOND ASSIGNOR, IF ANY Xuefei Hu | ASSIGNOR'S SIGNATURE <i>Xuefei Hu</i> | DATE 06/21/2017 |
| ADDRESS 731 S. Breckenridge Dr. Dunlap IL 61525 | | CITIZENSHIP China |

| | | |
|--|---|--------------------|
| 1. WITNESS NAME <i>Mingxiang Jiang</i> | WITNESS SIGNATURE <i>Mingxiang Jiang</i> | DATE 6/21/2017 |
| ADDRESS 11012 N Hunters Trail Ct. Dunlap IL 61525 | | CITIZENSHIP USA |

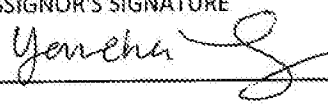
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|--|--|--------------------|
| 2. WITNESS NAME <i>Richard George</i> | WITNESS SIGNATURE <i>Richard George</i> | DATE 6/21/17 |
| ADDRESS 960 School St, Washington, IL 61571 | | CITIZENSHIP USA |


SOLE/JOINT INVENTION
(Worldwide Rights)
Attorney Docket No. 17-0149
Client Ref. No. 17-0149

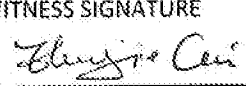
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| 5. FULL NAME OF SECOND ASSIGNOR, IF ANY Yong Sun | ASSIGNOR'S SIGNATURE  | DATE 6/23/2017 |
| ADDRESS 11025 N Hazel Way, Dunlap, IL 61525 | | CITIZENSHIP U.S.A. |

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| 1. WITNESS NAME | WITNESS SIGNATURE | DATE |
| ADDRESS | | CITIZENSHIP |

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| 2. WITNESS NAME | WITNESS SIGNATURE | DATE |
| ADDRESS | | CITIZENSHIP |

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|---|--|--------------------------|
| 1. FULL NAME OF SOLE OR FIRST ASSIGNOR Yanchai Zhang | ASSIGNOR'S SIGNATURE  | DATE 06/23/2017 |
| ADDRESS 731 S. Breckenridge Dr., Dunlap, IL 61525 | | CITIZENSHIP P.R.CHINA |

| | | |
|--|---|--------------------|
| 1. WITNESS NAME James Katter | WITNESS SIGNATURE  | DATE 6/23/2017 |
| ADDRESS 809 S Copperpoint Dr., Dunlap, IL 61525 | | CITIZENSHIP USA |

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| 2. WITNESS NAME Zhengjie Cui | WITNESS SIGNATURE  | DATE 06/23/2017 |
| ADDRESS 2215 W Willow Knolls Dr. Peoria, IL 61614 | | CITIZENSHIP P. A. China |

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| 2. FULL NAME OF SECOND ASSIGNOR, IF ANY Maurice Dust | ASSIGNOR'S SIGNATURE | DATE |
| ADDRESS 6020 N. Smith Rd., Edwards, IL 61528 | | CITIZENSHIP US |

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| 1. WITNESS NAME | WITNESS SIGNATURE | DATE |
| ADDRESS | | CITIZENSHIP |

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| 2. WITNESS NAME | WITNESS SIGNATURE | DATE |
| ADDRESS | | CITIZENSHIP |