

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4896149

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| KATHERINE MILLER | 03/27/2018 |
| JOSEPH FAIVRE | 03/23/2018 |
| BRADLEY KRONE | 03/23/2018 |
| TONY METZGER | 03/23/2018 |
| STEVE OTT | 04/02/2018 |
| RECEIVING PARTY DATA | |
| Name: | CATERPILLAR INC. |
| Street Address: | 510 LAKE COOK ROAD |
| Internal Address: | SUITE 100 |
| City: | DEERFIELD |
| State/Country: | ILLINOIS |
| Postal Code: | 60015 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15943073 |
| CORRESPONDENCE DATA | |
| Fax Number: | (202)450-5538 |
| <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: | 202-808-3550 |
| Email: | shughes@bookoffmcandrews.com |
| Correspondent Name: | BOOKOFF MCANDREWS, PLLC |
| Address Line 1: | 2020 K STREET NW |
| Address Line 2: | SUITE 400 |
| Address Line 4: | WASHINGTON, D.C. 20006 |
| ATTORNEY DOCKET NUMBER: | 00152-7303-00000 |
| NAME OF SUBMITTER: | /BIJU CHANDRAN/ |
| SIGNATURE: | /Biju Chandran/ |
| DATE SIGNED: | 04/03/2018 |

Total Attachments: 12

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ASSIGNMENT

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

PERFORMANCE MONITOR FOR A MACHINE

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

WHEREAS, Caterpillar Inc., a Delaware corporation whose post office address is 100 NE Adams Street, Peoria, IL 61629-9510 (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;

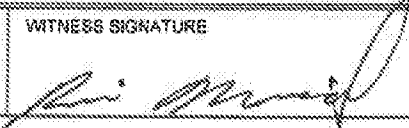
AND, I/WE HEREBY covenant that I/We have the full right to convey the interest assigned by this Assignment, and I/We have not executed and will not execute any agreement in conflict with this Assignment;

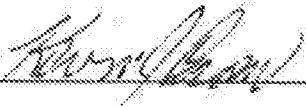
AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver 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 (U.S.
Application No. 15/943,073, filed April 2, 2018)

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

| | | |
|--|---|---------------------|
| 1. FULL NAME OF SOLE OR FIRST ASSIGNOR Katherine MILLER | ASSIGNOR'S SIGNATURE <i>Katherine Miller</i> | DATE 03/27/18 |
| ADDRESS 1405 W. Elm St. Chillicothe, IL 61523 | | CITIZENSHIP U.S. |

| | | |
|---------------------|--|---------|
| 1. WITNESS NAME | WITNESS SIGNATURE | DATE |
| Brian Morrical |  | 3/27/18 |
| ADDRESS | CITIZENSHIP | |
| 339 W. Stonegate Rd | US | |
| Peoria, IL 61614 | | |

| | | |
|-------------------------|---|---------|
| 2. WITNESS NAME | WITNESS SIGNATURE | DATE |
| Kevin Carew |  | 3/27/18 |
| ADDRESS | CITIZENSHIP | |
| 1024 N. Institute Place | USA | |
| Peoria, IL 61606 | | |

| | | |
|--|----------------------|------|
| 2. FULL NAME OF SOLE OR FIRST ASSIGNOR | ASSIGNOR'S SIGNATURE | DATE |
| Joseph FAIVRE | | |
| ADDRESS | CITIZENSHIP | |
| 603 E. Lakeshore Dr. | U.S. | |
| Edelstein, IL 61526 | | |

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| 1. WITNESS NAME | WITNESS SIGNATURE | DATE |
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| ADDRESS | CITIZENSHIP | |
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| 2. WITNESS NAME | WITNESS SIGNATURE | DATE |
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| ADDRESS | CITIZENSHIP | |
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| 3. FULL NAME OF SOLE OR FIRST ASSIGNOR | ASSIGNOR'S SIGNATURE | DATE |
| Bradley KRONE | | |
| ADDRESS | | CITIZENSHIP |
| 10931 N. Tuscany Ridge | | U.S. |
| Dunlap, IL 61525 | | |

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|-----------------|-------------------|-------------|
| 1. WITNESS NAME | WITNESS SIGNATURE | DATE |
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| ADDRESS | | CITIZENSHIP |
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| 2. WITNESS NAME | WITNESS SIGNATURE | DATE |
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| ADDRESS | | CITIZENSHIP |
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|--|----------------------|-------------|
| 4. FULL NAME OF SOLE OR FIRST ASSIGNOR | ASSIGNOR'S SIGNATURE | DATE |
| Tony METZGER | <i>Tony Metzger</i> | 3/23/2018 |
| ADDRESS | | CITIZENSHIP |
| 491 Reaba Ave. | | U.S. |
| Congerville, IL 61729 | | |

| | | |
|------------------------|--------------------------------|-------------|
| 1. WITNESS NAME | WITNESS SIGNATURE | DATE |
| MICHAEL A SPELMAN, JR. | <i>Michael A. Spelman, Jr.</i> | 3/23/2018 |
| ADDRESS | | CITIZENSHIP |
| 4002 VERNON AVE. | | U.S.A. |
| BROOKFIELD, IL 60513 | | |

| | | |
|------------------|--|-------------|
| 2. WITNESS NAME | WITNESS SIGNATURE | DATE |
| MICHAEL GENTILE |  | 3-23-18 |
| ADDRESS | | CITIZENSHIP |
| 302 N. LINDEN ST | | USA |
| MARCA, IL 61756 | | |

| | | |
|--|----------------------|-------------|
| 5. FULL NAME OF SOLE OR FIRST ASSIGNOR | ASSIGNOR'S SIGNATURE | DATE |
| Steve OTT | | |
| ADDRESS | | CITIZENSHIP |
| 1505 Mackenzie St. | | U.S. |
| Washington, IL 61571 | | |

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| 1. WITNESS NAME | WITNESS SIGNATURE | DATE |
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| ADDRESS | | CITIZENSHIP |
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| 2. WITNESS NAME | WITNESS SIGNATURE | DATE |
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| ADDRESS | | CITIZENSHIP |
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ASSIGNMENT

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

PERFORMANCE MONITOR FOR A MACHINE

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

WHEREAS, Caterpillar Inc., a Delaware corporation whose post office address is 100 NE Adams Street, Peoria, IL 61629-9510 (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 (U.S. Application No. 15/943,073, filed April 2, 2018).

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

| | | |
|---|----------------------|----------------------------|
| 1. FULL NAME OF SOLE OR FIRST ASSIGNOR Katherine MILLER | ASSIGNOR'S SIGNATURE | DATE |
| ADDRESS 1405 W. Elm St. | | CITIZENSHIP U.S. |
| Chillicothe, IL 61523 | | |


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| 1. WITNESS NAME | WITNESS SIGNATURE | DATE |
| ADDRESS | | CITIZENSHIP |
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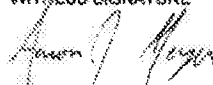
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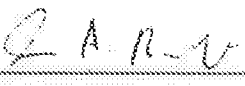
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|--|----------------------|-------------|
| 2. FULL NAME OF SOLE OR FIRST ASSIGNOR | ASSIGNOR'S SIGNATURE | DATE |
| Joseph FAIVRE | <i>Joseph Faivre</i> | 3/23/2018 |
| ADDRESS | | CITIZENSHIP |
| 603 E. Lakeshore Dr. | | U.S. |
| Edelstein, IL 61526 | | |

| | | |
|-------------------------------|---------------------|-------------|
| 1. WITNESS NAME | WITNESS SIGNATURE | DATE |
| Tianjiao Zuo | <i>Tianjiao Zuo</i> | 3/23/2018 |
| ADDRESS | | CITIZENSHIP |
| 6005 N Cedarcrest Ct. Apt 209 | | China. PR |
| Peoria, IL 61615 | | |

| | | |
|---|----------------------|---------------|
| 2. WITNESS NAME | WITNESS SIGNATURE | DATE |
| Steven Krause | <i>Steven Krause</i> | 2018 March 23 |
| ADDRESS | | CITIZENSHIP |
| 15903 N Revere Pl PL Chillicothe IL 61525 | | U.S.A |
| | | |

| | | |
|--|---|-------------|
| 3. FULL NAME OF SOLE OR FIRST ASSIGNOR | ASSIGNOR'S SIGNATURE | DATE |
| Bradley KRONE |  | 03/23/2018 |
| ADDRESS | | CITIZENSHIP |
| 10931 N. Tuscany Ridge | | U.S. |
| Dunlap, IL 61525 | | |


| | | |
|----------------------|---|-----------------------------|
| 1. WITNESS NAME | WITNESS SIGNATURE | DATE |
| Aaron J MEYER |  | March 23 rd 2018 |
| ADDRESS | | CITIZENSHIP |
| 1215 W. Patscher Dr. | | U.S. |
| Peoria, IL 61614 | | |

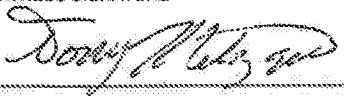
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| 2. WITNESS NAME | WITNESS SIGNATURE | DATE |
| Jaron A. Russell |  | 03/23/2018 |
| ADDRESS | | CITIZENSHIP |
| 2814 N Elmwood Dr. | | U.S. |
| Peoria, IL 61604 | | |


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| 4. FULL NAME OF SOLE OR FIRST ASSIGNOR | ASSIGNOR'S SIGNATURE | DATE |
| Tony METZGER | | |
| ADDRESS | | CITIZENSHIP |
| 491 Reaba Ave. | | U.S. |
| Congerville, IL 61729 | | |

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| ADDRESS | | CITIZENSHIP |
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| 5. FULL NAME OF SOLE OR FIRST ASSIGNOR | ASSIGNOR'S SIGNATURE | DATE |
| Steve OTT |  | 4-2-18 |
| ADDRESS | | CITIZENSHIP |
| 1505 Mackenzie St. | | U.S. |
| Washington, IL 61571 | | |

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|-----------------------|---|-------------|
| 1. WITNESS NAME | WITNESS SIGNATURE | DATE |
| Tony Metzger |  | 4-2-18 |
| ADDRESS | | CITIZENSHIP |
| 491 Reaba Ave | | US |
| Congerville, IL 61729 | | |

| | | |
|------------------------|--|-------------|
| 2. WITNESS NAME | WITNESS SIGNATURE | DATE |
| Byron Delaware |  | 4/2/2018 |
| ADDRESS | | CITIZENSHIP |
| 12417 N. Blackhawk Ct. | | USA |
| Dunlap, IL 61525 | | |

ASSIGNMENT

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

PERFORMANCE MONITOR FOR A MACHINE

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

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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;

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| 1. FULL NAME OF SOLE OR FIRST ASSIGNOR Katherine MILLER | ASSIGNOR'S SIGNATURE | DATE |
| ADDRESS 1405 W. Elm St. Chillicothe, IL 61523 | | CITIZENSHIP U.S. |

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| 2. FULL NAME OF SOLE OR FIRST ASSIGNOR | ASSIGNOR'S SIGNATURE | DATE |
| Joseph FAIVRE | | |
| ADDRESS 603 E. Lakeshore Dr. Edelstein, IL 61526 | | CITIZENSHIP U.S. |

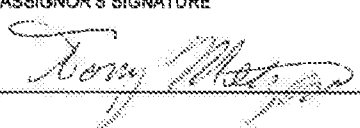
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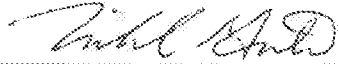
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| 3. FULL NAME OF SOLE OR FIRST ASSIGNOR | ASSIGNOR'S SIGNATURE | DATE |
| Bradley KRONE | | |
| ADDRESS | | CITIZENSHIP |
| 10931 N. Tuscany Ridge | | U.S. |
| Dunlap, IL 61525 | | |

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| ADDRESS | | CITIZENSHIP |
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| 4. FULL NAME OF SOLE OR FIRST ASSIGNOR | ASSIGNOR'S SIGNATURE | DATE |
| Tony METZGER |  | 3/23/2018 |
| ADDRESS | | CITIZENSHIP |
| 491 Reaba Ave. | | U.S. |
| Congerville, IL 61729 | | |

| | | |
|------------------------|--|-------------|
| 1. WITNESS NAME | WITNESS SIGNATURE | DATE |
| MICHAEL A SPELMAN, JR. |  | 3/23/2018 |
| ADDRESS | | CITIZENSHIP |
| 4002 VERNON AVE. | | U.S.A. |
| BROOKFIELD, IL 60513 | | |

| | | |
|--|---|--------------------|
| 2. WITNESS NAME MICHAEL GENTLE | WITNESS SIGNATURE  | DATE 3-23-18 |
| ADDRESS 302 N. LINDEN ST MADISON, IL 61756 | | CITIZENSHIP USA |

| | | |
|---|----------------------|---------------------|
| 5. FULL NAME OF SOLE OR FIRST ASSIGNOR Steve OTT | ASSIGNOR'S SIGNATURE | DATE |
| ADDRESS 1505 Mackenzie St. Washington, IL 61571 | | CITIZENSHIP U.S. |

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