

PATENT ASSIGNMENT

Electronic Version v1.1
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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>Cory A. Brown</td> <td>12/03/2012</td> </tr> <tr> <td>Mayank Mittal</td> <td>11/19/2012</td> </tr> <tr> <td>Xiangdong Ding</td> <td>11/28/2012</td> </tr> <tr> <td>Hoisan Kim</td> <td>11/26/2012</td> </tr> <tr> <td>Mark F. Sommars</td> <td>11/26/2012</td> </tr> </tbody> </table>		Name	Execution Date	Cory A. Brown	12/03/2012	Mayank Mittal	11/19/2012	Xiangdong Ding	11/28/2012	Hoisan Kim	11/26/2012	Mark F. Sommars	11/26/2012
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RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>Caterpillar Inc.</td> </tr> <tr> <td>Street Address:</td> <td>100 NE Adams Street</td> </tr> <tr> <td>Internal Address:</td> <td>AH9510</td> </tr> <tr> <td>City:</td> <td>Peoria</td> </tr> <tr> <td>State/Country:</td> <td>ILLINOIS</td> </tr> <tr> <td>Postal Code:</td> <td>61629-9510</td> </tr> </table>		Name:	Caterpillar Inc.	Street Address:	100 NE Adams Street	Internal Address:	AH9510	City:	Peoria	State/Country:	ILLINOIS	Postal Code:	61629-9510
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PROPERTY NUMBERS Total: 1													
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CORRESPONDENCE DATA													
<p>Fax Number: 3096751236 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 309-675-5140 Email: US_Docket_Clerk@cat.com Correspondent Name: Caterpillar Inc. Intellectual Property D Address Line 1: 100 NE Adams Street Address Line 2: AH9510 Address Line 4: PEORIA, ILLINOIS 61629-9510</p>													
ATTORNEY DOCKET NUMBER:	11-0857												

NAME OF SUBMITTER:

Mary M. Umholtz

Total Attachments: 5

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ASSIGNMENT

WHEREAS, MAYANK MITTAL, residing at Waukesha, Wisconsin, hereinafter referred to as ASSIGNOR has invented together with Cory A. Brown, Hoisan Kim, Mark F. Sommars and Xiangdong Ding a new and useful

DUAL FUEL INJECTOR WITH CROSSOVER VALVE

for which ASSIGNOR is about to file an international application and/or make application for Letters Patent in the United States of America, such invention being described and identified by said application having an attached International Application Request and/or an attached Declaration and Power of Attorney executed by ASSIGNOR on _____; and

WHEREAS, Caterpillar Inc., a Delaware corporation having a place of business at Peoria, State of Illinois, United States of America, hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to said invention and any Letters Patent granted thereon by the United States of America and any foreign country;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and for other good and valuable consideration received by ASSIGNOR from ASSIGNEE, the receipt of which is hereby acknowledged by ASSIGNOR;

1. ASSIGNOR hereby sells, assigns, transfers and conveys unto ASSIGNEE the entire right, title and interest in and to said invention, any application therefor, and any Letters Patent granted thereon by the United States of America and any foreign country, including any continuing application, reissue or extension thereof, together with the right to file applications and obtain patents for said invention in any foreign country, and covenant that ASSIGNOR has the full right to do so.

2. At the request and expense of ASSIGNEE, ASSIGNOR agrees to communicate to ASSIGNEE any facts known respecting said invention, to execute all papers necessary to file any application on said invention necessary or desirable to aid ASSIGNEE in obtaining and enforcing proper protection for said invention in the United States of America and any foreign country.

3. ASSIGNOR hereby authorizes and requests the COMMISSIONER OF PATENTS AND TRADEMARKS to issue the United States Letters Patent on said invention, when granted, to Caterpillar Inc..

4. This assignment shall inure to the benefit of ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon ASSIGNOR, ASSIGNOR'S heirs and legal representatives.

IN TESTIMONY WHEREOF, ASSIGNOR has executed this instrument.

Mayan
MAYANK MITTAL

11/19/2012
Date

IN WITNESS OF the execution hereof by MAYANK MITTAL we have hereunto set our hands.

Witness (1) _____ Date _____
Address: _____

Witness (2) _____ Date _____
Address: _____

ASSIGNMENT

WHEREAS, CORY A. BROWN, residing at Peoria, Illinois, hereinafter referred to as ASSIGNOR has invented together with Hoisan Kim, Mark F. Sommars, Xiangdong Ding and Mayank Mittal a new and useful

DUAL FUEL INJECTOR WITH CROSSOVER VALVE

for which ASSIGNOR is about to file an international application and/or make application for Letters Patent in the United States of America, such invention being described and identified by said application having an attached International Application Request and/or an attached Declaration and Power of Attorney executed by ASSIGNOR on _____; and

WHEREAS, Caterpillar Inc., a Delaware corporation having a place of business at Peoria, State of Illinois, United States of America, hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to said invention and any Letters Patent granted thereon by the United States of America and any foreign country;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and for other good and valuable consideration received by ASSIGNOR from ASSIGNEE, the receipt of which is hereby acknowledged by ASSIGNOR;

1. ASSIGNOR hereby sells, assigns, transfers and conveys unto ASSIGNEE the entire right, title and interest in and to said invention, any application therefor, and any Letters Patent granted thereon by the United States of America and any foreign country, including any continuing application, reissue or extension thereof, together with the right to file applications and obtain patents for said invention in any foreign country, and covenant that ASSIGNOR has the full right to do so.

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3. ASSIGNOR hereby authorizes and requests the COMMISSIONER OF PATENTS AND TRADEMARKS to issue the United States Letters Patent on said invention, when granted, to Caterpillar Inc..

4. This assignment shall inure to the benefit of ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon ASSIGNOR, ASSIGNOR'S heirs and legal representatives.

IN TESTIMONY WHEREOF, ASSIGNOR has executed this instrument.

Cory A. Brown
CORY A. BROWN

12-3-17
Date

IN WITNESS OF the execution hereof by CORY A. BROWN we have hereunto set our hands.

Mark F. Sommars 12/3/12
Witness (1) Date
Address: 114 Running Elk St.
Spaulding, IL 61585

12/3/12
Witness (2) Date
Address: 2617 W. Cortale Ln.
Dunkin, IL 61525

ASSIGNMENT

WHEREAS, XIANGDONG DING, residing at Peoria, Illinois, hereinafter referred to as ASSIGNOR has invented together with Cory A. Brown, Hoisan Kim, Mark F. Sommars and Mayank Mittal a new and useful

DUAL FUEL INJECTOR WITH CROSSOVER VALVE

for which ASSIGNOR is about to file an international application and/or make application for Letters Patent in the United States of America, such invention being described and identified by said application having an attached International Application Request and/or an attached Declaration and Power of Attorney executed by ASSIGNOR on _____; and

WHEREAS, Caterpillar Inc., a Delaware corporation having a place of business at Peoria, State of Illinois, United States of America, hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to said invention and any Letters Patent granted thereon by the United States of America and any foreign country;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and for other good and valuable consideration received by ASSIGNOR from ASSIGNEE, the receipt of which is hereby acknowledged by ASSIGNOR;



1. ASSIGNOR hereby sells, assigns, transfers and conveys unto ASSIGNEE the entire right, title and interest in and to said invention, any application therefor, and any Letters Patent granted thereon by the United States of America and any foreign country, including any continuing application, reissue or extension thereof, together with the right to file applications and obtain patents for said invention in any foreign country, and covenant that ASSIGNOR has the full right to do so.

2. At the request and expense of ASSIGNEE, ASSIGNOR agrees to communicate to ASSIGNEE any facts known respecting said invention, to execute all papers necessary to file any application on said invention necessary or desirable to aid ASSIGNEE in obtaining and enforcing proper protection for said invention in the United States of America and any foreign country.

3. ASSIGNOR hereby authorizes and requests the COMMISSIONER OF PATENTS AND TRADEMARKS to issue the United States Letters Patent on said invention, when granted, to Caterpillar Inc..

4. This assignment shall inure to the benefit of ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon ASSIGNOR, ASSIGNOR'S heirs and legal representatives.

IN TESTIMONY WHEREOF, ASSIGNOR has executed this instrument.



 XIANGDONG DING Date

IN WITNESS OF the execution hereof by XIANGDONG DING we have hereunto set our hands.

<p>Witness (1)</p> <p>Address: 中国江苏省常州市武进区花园街新城公馆1301室</p> <p>No. 1301 Xincheng Gongguan Foshan HuaYan Street, Wujin district, Changzhou city Jiangsu province China.</p>	<p>Witness (2)</p> <p>Address: No. 20 Longliu Town, Gao You City, Jiangsu Province China</p>
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ASSIGNMENT

WHEREAS, HOISAN KIM, residing at Dunlap, Illinois, hereinafter referred to as ASSIGNOR has invented together with Cory A. Brown, Mark F. Sommars, Xiangdong Ding and Mayank Mittal a new and useful

DUAL FUEL INJECTOR WITH CROSSOVER VALVE

for which ASSIGNOR is about to file an international application and/or make application for Letters Patent in the United States of America, such invention being described and identified by said application having an attached International Application Request and/or an attached Declaration and Power of Attorney executed by ASSIGNOR on _____; and

WHEREAS, Caterpillar Inc., a Delaware corporation having a place of business at Peoria, State of Illinois, United States of America, hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to said invention and any Letters Patent granted thereon by the United States of America and any foreign country;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and for other good and valuable consideration received by ASSIGNOR from ASSIGNEE, the receipt of which is hereby acknowledged by ASSIGNOR;

1. ASSIGNOR hereby sells, assigns, transfers and conveys unto ASSIGNEE the entire right, title and interest in and to said invention, any application therefor, and any Letters Patent granted thereon by the United States of America and any foreign country, including any continuing application, reissue or extension thereof, together with the right to file applications and obtain patents for said invention in any foreign country, and covenant that ASSIGNOR has the full right to do so.

2. At the request and expense of ASSIGNEE, ASSIGNOR agrees to communicate to ASSIGNEE any facts known respecting said invention, to execute all papers necessary to file any application on said invention necessary or desirable to aid ASSIGNEE in obtaining and enforcing proper protection for said invention in the United States of America and any foreign country.

3. ASSIGNOR hereby authorizes and requests the COMMISSIONER OF PATENTS AND TRADEMARKS to issue the United States Letters Patent on said invention, when granted, to Caterpillar Inc..

4. This assignment shall inure to the benefit of ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon ASSIGNOR, ASSIGNOR'S heirs and legal representatives.

IN TESTIMONY WHEREOF, ASSIGNOR has executed this instrument.



HOISAN KIM

Nov. 26, 2012

Date

IN WITNESS OF the execution hereof by HOISAN KIM we have hereunto set our hands.

Mark Sommars

Witness (1)

11/26/12

Date

Address: 114 Running Elk Ct
Spartanburg, IL 61565

Anthony Elton

Witness (2)

11/26/12

Date

Address: 2215 W. Willow Knoll Dr,
APT # 708, Peoria, IL 61614

PATENT

REEL: 029453 FRAME: 0216

ASSIGNMENT

WHEREAS, MARK F. SOMMARS, residing at Hopewell, Illinois, hereinafter referred to as ASSIGNOR has invented together with Cory A. Brown, Hoisan Kim, Xiangdong Ding and Mayank Mittal a new and useful

DUAL FUEL INJECTOR WITH CROSSOVER VALVE

for which ASSIGNOR is about to file an international application and/or make application for Letters Patent in the United States of America, such invention being described and identified by said application having an attached International Application Request and/or an attached Declaration and Power of Attorney executed by ASSIGNOR on _____; and

WHEREAS, Caterpillar Inc., a Delaware corporation having a place of business at Peoria, State of Illinois, United States of America, hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to said invention and any Letters Patent granted thereon by the United States of America and any foreign country;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and for other good and valuable consideration received by ASSIGNOR from ASSIGNEE, the receipt of which is hereby acknowledged by ASSIGNOR;

1. ASSIGNOR hereby sells, assigns, transfers and conveys unto ASSIGNEE the entire right, title and interest in and to said invention, any application therefor, and any Letters Patent granted thereon by the United States of America and any foreign country, including any continuing application, reissue or extension thereof, together with the right to file applications and obtain patents for said invention in any foreign country, and covenant that ASSIGNOR has the full right to do so.

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3. ASSIGNOR hereby authorizes and requests the COMMISSIONER OF PATENTS AND TRADEMARKS to issue the United States Letters Patent on said invention, when granted, to Caterpillar Inc..

4. This assignment shall inure to the benefit of ASSIGNEE, its successors, assigns and other legal representatives, and shall be binding upon ASSIGNOR, ASSIGNOR'S heirs and legal representatives.

IN TESTIMONY WHEREOF, ASSIGNOR has executed this instrument.

Mark F. Sommars
MARK F. SOMMARS

11/26/2012
Date

IN WITNESS OF the execution hereof by MARK F. SOMMARS we have hereunto set our hands.

Anthony Elston 11/26/2012
Witness (1) Date
Address: 2215 W Willow Knolls Dr
Apt # 708, Peoria, IL 61614

[Signature] 11/26/2012
Witness (2) Date
Address: 2617 W. Carlisle Ln.
Dunklin, IL 61525