#### PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
Avinash R. Manubolu	12/21/2009
Stephen R. Lewis	12/21/2009
Jayaraman K. Venkataraghavan	12/21/2009

#### **RECEIVING PARTY DATA**

Name:	Caterpillar, Inc.
Street Address:	100 North East Adams
City:	Peoria
State/Country:	ILLINOIS
Postal Code:	61629

#### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12645646

#### **CORRESPONDENCE DATA**

Fax Number: (312)977-9959

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 312-977-9903

Email: mloye@millermatthiashull.com Correspondent Name: Caterpillar Inc. c/o Miller, Matthias &

One North Franklin Street Address Line 1:

Address Line 2: **Suite 2350** 

Address Line 4: Chicago, ILLINOIS 60606

ATTORNEY DOCKET NUMBER:	50100/08-1172
NAME OF SUBMITTER:	Michael R. Hull

**Total Attachments: 3** 

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**PATENT** REEL: 023693 FRAME: 0490

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> PATENT REEL: 023693 FRAME: 0491

#### <u>ASSIGNMENT</u>

WHEREAS, Avinash R. Manubolu, residing at 6418 W. Sommer Pl., Edwards, IL 61528; Stephen R. Lewis, residing at 225 White Clover Dr., Chillicothe, IL 61523; Jayaraman K. Venkataraghavan, residing at 11101 N. Serene Blvd., Dunlap, IL 61525; hereinafter referred to as ASSIGNOR have invented a new and useful

## Improved Fuel Injection Systems and Armature Housings

for which ASSIGNOR has made application for Letters Patent in the United States of America, such invention being described and identified by said application submitted herewith; 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.

$\bigwedge$ IN TESTIMONY WHEREOF, $\Lambda$	ASSIGNOR has executed this instrument.
A.	12/21/09
Avinash R. Manubolu	Date
IN TESTIMONY WHEREOF,	ASSIGNOR has executed this instrument.
MI	12/21/09
Stephen R. Lewis	Date
IN TESTIMONY WHEREOF, A	ASSIGNOR has executed this instrument.
Jayaraman K. Venkataraghavan	Date

PATENT REEL: 023693 FRAME: 0492

#### **ASSIGNMENT**

WHEREAS, Avinash R. Manubolu, residing at 6418 W. Sommer Pl., Edwards, IL 61528; Stephen R. Lewis, residing at 225 White Clover Dr., Chillicothe, IL 61523; Jayaraman K. Venkataraghavan, residing at 11101 N. Serene Blvd., Dunlap, IL 61525; hereinafter referred to as ASSIGNOR have invented a new and useful

### Improved Fuel Injection Systems and Armature Housings

for which ASSIGNOR has made application for Letters Patent in the United States of America, such invention being described and identified by said application submitted herewith; 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.
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IN TESTIMONY WHEREOF, ASSIGNOR has executed this instrument.

Date
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PATENT REEL: 023693 FRAME: 0493

### IN TESTIMONY WHEREOF, ASSIGNOR has executed this instrument.

IN WITNESS OF the execution hereof by Avinash R. Manubolu, Stephen R. Lewis, and Jayaraman K. Venkataraghavan we have hereunto sot our hands.

Abhishek Jadhar 12/22/09 VICTOR JACOUB 12/2
Witness (1) Date
Address: 905 N Decyfield Rd Address: 1630 JADENS V

Apt # 208 Washington, IL 6/57)

PATENT

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**RECORDED: 12/23/2009**