

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>GURPREET GAMBHIR</td><td>09/12/2011</td></tr><tr><td>RAMMOHAN SANKAR</td><td>09/12/2011</td></tr><tr><td>TRAVIS BARNES</td><td>09/12/2011</td></tr><tr><td>ZENEBE GETE</td><td>09/12/2011</td></tr></tbody></table>		Name	Execution Date	GURPREET GAMBHIR	09/12/2011	RAMMOHAN SANKAR	09/12/2011	TRAVIS BARNES	09/12/2011	ZENEBE GETE	09/12/2011
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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 N.E. ADAMS</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>61629-6490</td></tr></table>		Name:	CATERPILLAR INC.	Street Address:	100 N.E. ADAMS	City:	PEORIA	State/Country:	ILLINOIS	Postal Code:	61629-6490
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PROPERTY NUMBERS Total: 1											
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Application Number:	13231106										
CORRESPONDENCE DATA											
Fax Number: (312)616-5700											
Phone: (312) 616-5600											
Email: ASSIGNMENTS@LEYDIG.COM											
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>											
Correspondent Name: ELIAS P. SOUPOS											
Address Line 1: 180 N. STETSON AVE., STE. 4900											
Address Line 4: CHICAGO, ILLINOIS 60601-6731											
ATTORNEY DOCKET NUMBER:	708281										
NAME OF SUBMITTER:	ELIAS P. SOUPOS										
Total Attachments: 5											

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PATENT
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PATENT
Attorney Docket No. 708281
CAT Reference No. 11-0542

Leydig, Voit & Mayer, Ltd.
Two Prudential Plaza, Suite 4900
180 North Stetson Avenue
Chicago, Illinois 60601-6731

ASSIGNMENT

Whereas, we,

Gurpreet Gambhir, of: 1327 W. COVINGTON CT #2 PEORIA, IL 61614
(Number and Street, or P.O. Box, City and State, ZIP Code)

Rammohan Sankar, of: 10918, N. CRESTPOINT, DUNLAP, IL 61525
(Number and Street, or P.O. Box, City and State, ZIP Code)

Travis Barnes, of: 1123 N. McGraw Rd, Metumora IL 61548; and
(Number and Street, or P.O. Box, City and State, ZIP Code)

Zenebe Gete, of: 7204 N Park Edge U Peoria, IL 61614,
(Number and Street, or P.O. Box, City and State, ZIP Code)

have invented and own a certain invention entitled:

EGR FLOW MEASUREMENT

for which invention we have executed an application for a U.S. patent, which was filed
on September 13, 2011 under U.S. Application No. 13/231,106 ; and

Whereas, Caterpillar Inc., of 100 N.E. Adams, Peoria, IL 61629-6490, hereinafter referred to as Assignee, is desirous of acquiring the entire domestic and foreign right, title, and interest in and under the invention described in the patent application.

Now, therefore, for good and valuable considerations, the receipt and sufficiency of which are hereby acknowledged, we assign and transfer to the Assignee and the Assignee's legal representatives, successors and assigns the full and exclusive rights in and to the invention in the U.S. and every foreign country and the entire right, title, and interest in and to the patent application and other such applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, National phase applications, including petty patent applications, and utility model applications) that may be filed in the United States and every foreign country on the invention, and the patents, extensions, or derivations thereof, both foreign and domestic, that may issue thereon, and we hereby authorize and request the Commissioner of Patents to issue U.S. patents to the above-mentioned Assignee agreeably with the terms of this assignment document.

We hereby authorize the Assignee to insert in this assignment document the filing date and application number of the application if the date and number are unavailable at the time this document is executed.


In re Application of: Gambhir et al.
Attorney Docket No. 708281

Upon said consideration, we convey to the Assignee the right to make application in its own behalf for protection of the invention in the U.S. and countries foreign to the U.S. and to claim under the Patent Cooperation Treaty, the International Convention and/or other international arrangement for any such application the date of the U.S. application (or any other application on the invention) to gain priority with respect to other applications.

We hereby covenant and agree with the Assignee that we will not execute any writing or do any act whatsoever conflicting with the terms of this assignment document set forth herein, and that we will at any time upon request, without further or additional consideration, but at the expense of the Assignee, execute such additional assignments and other writings and do such additional acts as the Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this assignment, and render all necessary assistance in making application for and obtaining original, continuation, continuation-in-part, divisional, reissued, reexamined, and National phase patents of the U.S. or of any and all foreign countries on the invention, and in enforcing any rights or choses in action accruing as a result of such applications or patents, and by executing statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of all parties hereto.

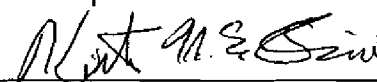
In witness whereof, we have hereunder set our hands on the dates shown below.

Date 09/12/2011




Gurpreet Gambhir

Date 9/12/2011



Witness

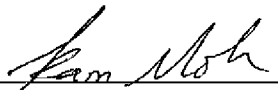
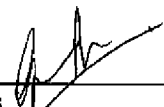
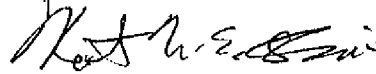
Date 09/12/2011



Witness

In re Application of: Gambhir et al.
Attorney Docket No. 708281

In witness whereof, we have hereunder set our hands on the dates shown below.

Date	<u>09/12/11</u>	<u></u>
		Rammohan Sankar
Date	<u>09/12/2011</u>	<u></u>
		Witness
Date	<u>9/12/2011</u>	<u></u>
		Witness

In re Application of: Gambhir et al.
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In witness whereof, we have hereunder set our hands on the dates shown below.

Date 09/12/2011

Travis Barnes
Travis Barnes

Date 09/12/2011

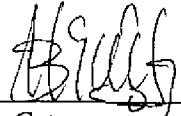
Sam M. L.
Witness

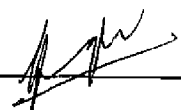
Date 9/12/2011

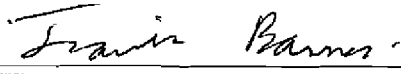
Keith H. E. E.
Witness

In re Application of: Gambhir et al.
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In witness whereof, we have hereunder set our hands on the dates shown below.

Date 9/12/2011 
Zenebe Gete

Date 09/12/2011 
Witness

Date 09/12/2011 
Witness