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U.S. Department of Commerce
Patent and Trademark Office
Customer No. 58,982
Attorney Docket No. 08350.7241-000
Client Ref. No. 07-241

To the Director of the U.S. Patent and Trademark Office
Please record the attached original

Mail Stop Assignment Recordation Service

1. Name of conveying parties:
1) Steven Francis MEISTER
2) David Wayne PAINTER
3) Jamie Erin FRISCH

2. Name and address of receiving party(ies):

Name: Caterpillar Inc.

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

Internal Address:

3. Nature of conveyance:

Street Address: 100 N.E. Adams Street

☒ Assignment

☐ Merger

City: Peoria

☐ Security Agreement

☐ Change of Name

State: IL

Zip Code: 61629-6490

☐ Joint Research Agreement

☐ Government Interest Assignment

Additional name(s) & Address(es) attached?

☐ Executive Order 9494, Confirmatory License

☐ Other:

☐ Yes

☒ No

Execution Date: (1) 6/26/07; (2) 6/26/07; (3) 6/26/07

4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application: (1) 6/26/07; (2) 6/26/07; (3) 6/26/07

A. Patent Application Number(s):

B. Patent Number(s):

Additional numbers attached?

☐ Yes

☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

6. Total number of applications and patents involved
One

Name: Elizabeth M. Burke

7. Total fee (37 CFR 1.21(h) and 3.41): \$40

Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.

☒ Enclosed (Please charge deficiency or credit overpayment to deposit account 06-0916)

Street Address: 901 New York Avenue, N.W.

☐ Authorized to be charged to deposit account

City: Washington, D.C.

State: Zip: 20001-4413

8. Deposit Account No.: 06-0916

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Elizabeth M. Burke
Reg. No. 38,758

Signature

6/29/07
Date

Total number of pages including cover sheet, attachments and documents: 13

ASSIGNMENT

WHEREAS We, the below named inventors, [hereinafter referred to as Assignors], have made an invention entitled:

FILTER PURGE SYSTEM UTILIZING A REACTIVE PROPELLANT

for which We executed an application for United States Letters Patent concurrently herewith and

WHEREAS, Caterpillar Inc., a corporation of Delaware whose post office address is 100 N.E. Adams Street, Peoria, IL 61629-6490 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from Assignee is hereby acknowledged, We, as Assignors, 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 Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of this application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and We hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

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

AND, WE HEREBY further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to 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 the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, We have hereunto set our hands.

1. FULL NAME OF SOLE OR FIRST ASSIGNOR Steven Francis Meister	ASSIGNOR'S SIGNATURE <i>Steven Francis Meister</i>	DATE 26 JUN 07
ADDRESS 20407 North Blue Ridge Road, Chillicothe, Illinois 61523		CITIZENSHIP U.S.A.

1. WITNESS NAME RICHARD CONRAD	WITNESS SIGNATURE Richard Conrad	DATE 6/26/2007
ADDRESS #8 HOPEWELL DR. SPARLAND, IL. 61565		CITIZENSHIP U.S.A.

2. WITNESS NAME RICHARD SCHLICHER	WITNESS SIGNATURE Richard Schlicher	DATE 6/26/07
ADDRESS 6126 N OAK LEAF CT. PEORIA, IL 61615		CITIZENSHIP USA

2. FULL NAME OF SECOND ASSIGNOR Loran Hoffman	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 300 East Holland Street, Washington, Illinois 61571		CITIZENSHIP U.S.A.

1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

3. FULL NAME OF THIRD ASSIGNOR Thomas V. Staley	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 2805 West Larchmont Lane, Apartment E32, Peoria, Illinois 61615		CITIZENSHIP U.S.A.

1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

4. FULL NAME OF FOURTH ASSIGNOR Philip Stephen Bruza	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 7601 North Derby Road, Peoria, Illinois 61615		CITIZENSHIP U.S.A.

1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

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ADDRESS		CITIZENSHIP

ASSIGNMENT

WHEREAS We, the below named inventors, [hereinafter referred to as Assignors], have made an invention entitled:

FILTER PURGE SYSTEM UTILIZING IMPACT WAVE GENERATING DEVICE AND VACUUM SOURCE

for which We executed an application for United States Letters Patent concurrently herewith and

WHEREAS, **Caterpillar Inc.**, a corporation of Delaware whose post office address is 100 N.E. Adams Street, Peoria, IL 61629-6490 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

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

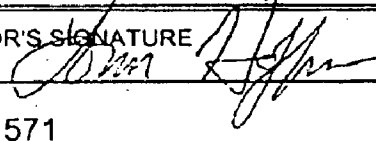
AND, WE HEREBY further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any 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 the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

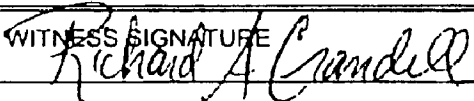
IN TESTIMONY WHEREOF, We have hereunto set our hands.


1. FULL NAME OF SOLE OR FIRST ASSIGNOR Steven Francis Meister	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 20407 North Blue Ridge Road, Chillicothe, Illinois 61523		CITIZENSHIP U.S.A.

1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

2. FULL NAME OF SECOND ASSIGNOR Loran Hoffman	ASSIGNOR'S SIGNATURE 	DATE 6/26/07
ADDRESS 300 East Holland Street, Washington, Illinois 61571		CITIZENSHIP U.S.A.

1. WITNESS NAME Richard A. Crandell	WITNESS SIGNATURE 	DATE 6/26/2007
ADDRESS 7413 N. Piccadilly Place Peoria, IL 61614		CITIZENSHIP USA

2. WITNESS NAME BRANDON J STEPHENS	WITNESS SIGNATURE 	DATE 6/26/2007
ADDRESS 26218 LIBERTY LN WASHINGTON IL 61571		CITIZENSHIP USA

3. FULL NAME OF THIRD ASSIGNOR Thomas V. Staley	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 2805 West Larchmont Lane, Apartment E32, Peoria, Illinois 61615		CITIZENSHIP U.S.A.

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ADDRESS 7601 North Derby Road, Peoria, Illinois 61615		CITIZENSHIP U.S.A.

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FILTER PURGE SYSTEM UTILIZING IMPACT WAVE GENERATING DEVICE AND VACUUM SOURCE

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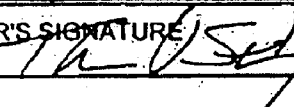
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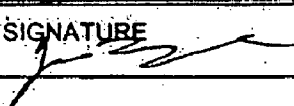
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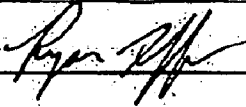
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ADDRESS 2805 West Larchmont Lane, Apartment E32, Peoria, Illinois 61615		CITIZENSHIP U.S.A.

1. WITNESS NAME Zachary K. Frank	WITNESS SIGNATURE 	DATE 6/26/07
ADDRESS 7150 N. Terra Vista Apt 103, Peoria, Illinois 61614		CITIZENSHIP U.S.A.

2. WITNESS NAME Ryan M. Duffek	WITNESS SIGNATURE 	DATE 6-26-07
ADDRESS 1700 W Hickory Grove Rd. Apt 7-203 Danvers, IL 61525		CITIZENSHIP USA

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Customer No. 58,982
SOLE/JOINT INVENTION
(Worldwide Rights)

Attorney Docket No. 08360,7091-00000
Client Ref. No. 07-091

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4 FULL NAME OF FOURTH ASSIGNOR Philip Stephen Bruza	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 7601 North Derby Road, Peoria, Illinois 61615		CITIZENSHIP U.S.A.

1 WITNESS NAME Heslie Collins	WITNESS SIGNATURE	DATE
ADDRESS 1500 W. Blue Sage Apt 1015 Peoria, IL 61615		CITIZENSHIP USA

2. WITNESS NAME Matt Littlejohn	WITNESS SIGNATURE	DATE
ADDRESS 107 McGowan St Bartonville IL 61607		CITIZENSHIP USA