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RECOR



103097088

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Director of the United States Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

Min Sun - 9/23/2005
Houshun Zhang - 9/14/2005
Zornitza Pavlinova Pavolva-MacKinnon - 9/23/2005
Kevin Dean Siskin - 9/23/2005

Execution Date(s): See Above

Additional names of conveying parties attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

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

Name: Detroit Diesel Corporation

Internal Address: _____

Street Address: 13400 Outer Drive, West

City: Detroit State: MI

Country: USA Zip: 48239-4001

Additional names, addresses, or citizenship attached? ☐ Yes ☒ No

4. Application or patent number(s): ☒ This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

09/30/2005 MBIZUNES 00000007 11237464

05 FC:8021

40.00 DP

Additional numbers attached? ☐ Yes ☒ No

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

Name: Ronald M. Nabozny

Internal Address: Brooks Kushman P.C.

Street Address: 1000 Town Center

Twenty-Second Floor

City: Southfield

State: MI Zip: 48075-1238

Phone Number: (248) 358-4400

Fax Number: (248) 358-3351

Email Address: rnabozny@brookskushman.com

6. Total number of applications and patents involved:

one (1)

7. Total fee (37 CFR 1.21(h) & 3.41)

\$40.00

☐ Authorized to be charged by credit card
☐ Authorized to be charged to Deposit Account
☒ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information:

a. Credit Card Last 4 Numbers _____
Expiration Date _____
b. Deposit Account Number _____
Authorized User Name _____

9. Signature:

Signature

Ronald M. Nabozny
Name of Person Signing

September 28, 2005
Date

Total number of pages including cover sheet, attachments, and document: 3

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450

PATENT
REEL: 017055 FRAME: 0580

ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, we Min Sun of 3290 Northway Avenue, Windsor, Ontario, Canada N9E47; Houshun Zhang of 2832 Wakefield Drive, Canton, MI 48188; Zornitza Pavlinova Pavlova-MacKinnon of 24713 Ridgeview Drive, Farmington Hills, MI 48336; and Kevin Dean Sisken of 9037 Yorkshire Drive, Saline, MI 48176, do hereby assign, sell and set over to Detroit Diesel Corporation, a corporation organized and existing under the laws of the State of Delaware, and having a place of business at 13400 Outer Drive, West, Detroit, Michigan 48239-4001, hereinafter referred to as the ASSIGNEE, its successors, assigns or other legal representatives, the entire right, title and interest, domestic and foreign, in and to the inventions and discoveries in

DIESEL PARTICULATE FILTER SOOT PERMEABILITY VIRTUAL SENSORS

for which an application for a United States Patent is to be filed or will have been filed on _____, as Application Serial No. _____ (we hereby authorize our attorney to insert the application filing date and number when they become known), including the right of said ASSIGNEE, its successors, assigns or other legal representatives to make applications and to receive Letters Patent for said inventions and discoveries in any and all foreign countries in its or their own name or names, or in our names, at its or their election, and we hereby assign, sell and set over to said ASSIGNEE, its successors, assigns or other legal representatives, all rights of priority, including any provisional applications, in and to said inventions and discoveries in all countries, including all applications claiming benefit of the filing date hereof, continuations, continuations-in-part, divisionals, reexaminations and reissue applications.

And we hereby agree for ourselves, our heirs, successors, assigns or other legal representatives to execute any and all papers, including applications for Letters Patent of any and all kinds and in any and all countries and to perform any and all acts which said ASSIGNEE, its successors, assigns or other legal representatives may deem necessary to secure thereto the rights herein assigned, sold and set over.

And we hereby represent and warrant that we have not granted any rights inconsistent with the rights granted herein.

Date: 9/23/05, 2005

Min Sun
Min Sun

Date: 9/14/05, 2005

Houshun Zhang
Houshun Zhang

Date: 9/23/05, 2005

Zornitza Pavlinova Pavlova-MacKinnon
Zornitza Pavlinova Pavlova-MacKinnon

Date: 9/23/05, 2005

Kevin Dean Sisken
Kevin Dean Sisken

STATE OF MICHIGAN)
COUNTY OF Wayne) ss.

On this 23rd day of September, 2005, personally appeared before me
Min Sun, to me known to be the person named in and who executed the above instrument, and acknowledged that
he executed the same for the uses and purposes therein mentioned.

(SEAL)

Margaret Johnson
Notary Public
My Commission expires: **MARGARET JOHNSON**
Notary Public, Oakland County, MI
Acting in Wayne Co., MI
My Commission Expires 09/21/2006

STATE OF MICHIGAN)
COUNTY OF Wayne) ss.

On this 14th day of September, 2005, personally appeared before me
Houshun Zhang, to me known to be the person named in and who executed the above instrument, and
acknowledged that he executed the same for the uses and purposes therein mentioned.

(SEAL)

Margaret Johnson
Notary Public
My Commission expires: **MARGARET JOHNSON**
Notary Public, Oakland County, MI
Acting in Wayne Co., MI
My Commission Expires 09/21/2006

STATE OF MICHIGAN)
COUNTY OF Wayne) ss.

On this 23rd day of September, 2005, personally appeared before me
Zornitza Pavlinova Pavlova-MacKinnon, to me known to be the person named in and who executed the above
instrument, and acknowledged that he executed the same for the uses and purposes therein mentioned.

(SEAL)

Margaret Johnson
Notary Public
My Commission expires: **MARGARET JOHNSON**
Notary Public, Oakland County, MI
Acting in Wayne Co., MI
My Commission Expires 09/21/2006

STATE OF MICHIGAN)
COUNTY OF Wayne) ss.

On this 23rd day of September, 2005, personally appeared before me
Kevin Dean Siskin, to me known to be the person named in and who executed the above instrument, and
acknowledged that he executed the same for the uses and purposes therein mentioned.

(SEAL)

Margaret Johnson
Notary Public
My Commission expires: **MARGARET JOHNSON**
Notary Public, Oakland County, MI
Acting in Wayne Co., MI
My Commission Expires 09/21/2006