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To the Honorable Commissioner of Patents

101952718

Attached original documents or copy thereof.

1. Name of conveying party(ies):

Cummins Engine IP, Inc.

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

Name: Cummins, Inc.

Address: 500 Jackson Street

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

☐ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☒ Other Nunc Pro Tunc Assignment

City: Columbus

State/Prov.: IN

Country: USA

ZIP: 47201

Execution Date: November 7, 2001

Additional name(s) & address(es)

☐ Yes ☒ No

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is:

Patent Application No.

Filing date

B. Patent No.(s)

09/774,524

1/31/01

09/773,649

1/29/01

09/771,754

1/29/01

09/773,244

1/31/01

Additional numbers

☒ Yes ☐ No

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

Name: Jeffrey A. Michael

Registration No. 37,394

Address: BARNES & THORNBURG

11 South Meridian Street

01/17/2002 TDIAR21 00000105 09774524

01 FC:581

520.00 DP

City: Indianapolis

State/Prov.: IN

Country: USA

ZIP: 46204

6. Total number of applications and patents involved:

13

7. Total fee (37 CFR 3.41): \$ 520.00

☒ Enclosed - Any excess or insufficiency should be credited or debited to deposit account

☐ Authorized to be charged to deposit account

8. Deposit account number:

10-0435

(Attach duplicate copy of this page if paying by deposit account)

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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.

Jeffrey A. Michael

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and

5

PATENT

REEL: 012469 FRAME: 0156

Additional Numbers:

Patent Application No.	Filing Date
09/773,068	1/31/01
09/773,654	1/31/01
09/774,987	1/31/01
09/774,664	1/31/01
09/775,412	2/1/01
09/773,040	1/31/01
09/773,151	1/31/01
09/774,425	1/31/01
09/774,959	1/31/01

NUNC PRO TUNC ASSIGNMENT

For good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, Cummins Engine IP, Inc., a Indiana Corporation, 1400 73rd Avenue NE, Minneapolis, MN 55432 ("Assignor") has assigned and hereby assigns effective Nov 7, 2001, to Cummins, Inc., an Indiana Corporation, 500 Jackson Street, Columbus, Indiana, 47201 ("Assignee"), all of its right, title and interest in and to all of its patents applications identified in Exhibit A attached hereto (Patents).

For such good and valuable consideration, Assignor hereby further assigns and transfers to Assignee, all rights and interests in, to and arising from any infringement of any of its Patents, including, without limitation, all claims for damages and profits for any infringements which occurred prior to the date of this Assignment, including the rights to sue for any infringements in its own name and stead and for its own benefit.

Assignor agrees to execute and deliver at the request of the Assignee, all papers, instruments, and assignments, and to perform any other reasonable acts the Assignee may require in order to vest all Assignor's rights, title, and interest in and to the Marks in the Assignee and/or to provide evidence to support any of the foregoing in the event such evidence is deemed necessary by the Assignee, to the extent such evidence is in the possession or control of Assignor.

November 7, 2001

Cummins Engine IP, Inc.

By: Gary M. Gorn

Its: PRESIDENT

STATE OF)
) SS:
COUNTY OF)

Subscribed and sworn to before me, a Notary Public, in and for said County and State, this 7th day of November, 2001.

Witness my hand and Notarial Seal this 7th day of November, 2001.

Jeffrey A. Michael
Notary Public

JEFFREY A. MICHAEL
Printed

County of Residence: MARION
My Commission Expires: JUNE 25, 2008

INDSO2 JMM 411827V1

EXHIBIT A**CUMMINS ENGINE IP, INC.
U.S. PATENT APPLICATIONS
ASSIGNED TO CUMMINS, INC.**

Application No.	Filing Date	Title	B&T Client-Matter No.
09/774,524	1/31/01	SYSTEM FOR DIAGNOSING EGR VALVE, ACTUATOR AND SENSOR RELATED FAILURE CONDITIONS	29766-67966
09/773,649	1/29/01	SYSTEM FOR DIAGNOSTING FAULT CONDITIONS ASSOCIATED WITH AN AIR HANDLING SYSTEM FOR AN AINTERNAL COMBUSTION ENGINE	29766-67967
09/771,754	1/29/01	SYSTEM FOR CONTROLLING TRANSIENT COMPRESSOR SURGE IN A TURBOCHARGERD INTERNAL COMBUSTION ENGINE	29766-67968
09/773,244	1/31/01	PASSIVE ENGINE EXHAUST FLOW RESTRICTION ARRANGEMENT	29766-67969
09/773,068	1/31/01	EQUIVALENCE RATIO-BASED SYSTEM FOR CONTROLLING TRANSIENT FUELING IN AN INTERNAL COMBUSTION ENGINE	29766-67971
09/773,654	1/31/01	SYSTEM FOR DECOUPLING EGR FLOW AND TURBOCHARGER SWALLOWING CAPACITY/EFFICIENCY CONTROL MECHANISMS	29766-67972
09/774,987	1/31/01	SYSTEM FOR CONTROLLING ENGINE EXHAUST TEMPERATURE	29766-67973
09/774,664	1/31/01	SYSTEM FOR ESTIMATING ENGINE EXHAUST TEMPERATURE	29766-67974
09/775,412	2/1/01	ENGINE EXHAUST GAS RECIRCULATION PARTICLE TRAP	29766-67979
09/773,040	1/31/01	EGR VALVE POSITION CONTROL SYSTEM	29766-68041
09/773,151	1/31/01	SYSTEM FOR MANAGING CHARGE FLOW AND EGR FRACTION IN AN INTERNAL COMBUSTION ENGINE	29766-68097
09/774,425	1/31/01	CLOSED-LOOP ACTUATOR CONTROL SYSTEM HAVING BUMPLESS GAIN AND ANTI-WINDUP LOGIC	29766-68098
09/774,959	1/31/01	SYSTEM FOR ESTIMATING TURBOCHARGER COMPRESSOR OUTLET TEMPERATURE	29766-68115