04-22-1999 a reeran kreit berek kildir beliek istalië bliek kildir likelië bii jake

**U.S. Department of Commerce** 

(Designation must be a separate document from

Assignment.)

)   DBSB: 54611 9.0495; 54911 DBSB: 17010 USIND 17011 DSB:		PATENT				
101016246	APR - 9 1999					
RECORDATION FORM COVER SHEET						
DATERITE ONLY						
10: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).						
Submission Type	Conveyance Type					
X New	X Assignment Security Agreem	ent				
Resubmission (Non-Recordation) Document ID#	License Change of Name					
Correction of PTO Error Reel # Frame #	Merger Other U.S. Government					
Corrective Document	(For Use ONLY by U.S. Government Ag	gencies)				
Reel # Frame #	Departmental File	Secret File				
Conveying Party(ies)  X Mark if additional names of conveying parties attached Execution Date  Month Day Year  (Only 100)  Name (line 1) Matthew L. Schneider						
Hatthew L. Schneider		08/05/1998				
Name (line 2)						
Second Party		Execution Date Month Day Year				
Name (line 1) Abhay P. Bhagwat		09/23/1998				
Name (line 2)						
Receiving Party	Mark if additional names of rec	eiving parties attached				
Name (line 1) Cummins Engine Company, I	Inc.	If document to be recorded is an assignment and the				
Name (line 2)		receiving party is not domicited in the United States, an appointment				
Address (line 1) 500 Jackson Street		of a domestic representative is attached. (Designation must be a				

Indiana State/Country Address (line 3) Columbus, 47201 Zip ( **Domestic Representative Name and Address** Enter for the first Receiving Party only. Name Address (line 1) Address (line 2) Address (line 3) Address (line 4)

FOR OFFICE USE ONLY

04/22/1999 VBROWN 00000005 09105124

Address (line 2)

40.00 DP )1 FC:581

Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20211 and to the Office of information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

Mail documents to be recorded with required cover sheet(s) information to: Commissioner of Patents and Trademarks, Box Assignments , Washington, D.C. 20231

> or a sycamore ු හැ. මෙර මෙරි විය. යන් පිටුතුන්තර යන පිටත් ත්රිතුමේ පාරණ රජ පට කතාක්රතුම කුළ්ජාවලකුණේ දින දිනිත පිළිබේණය E-vamissioner for Patents, Washington, 510 \*231 on April 6, 1999 (Date of Deposit) April 6, 1979

> > **PATENT**

**REEL: 9894 FRAME: 0139** 

FORM PTO-1619B Expires 06/30/99 OMB 0651-0027	Page 2	U.S. Department of Commerce Patent and Trademark Office PATENT		
Correspondent Name and Address	Area Code and Telephone Number	(317) 634-3456		
Name <sub>Troy</sub> J. Cole				
Address (line 1) Woodard, Emhardt, Naught	on, Moriarty & McNett			
Address (line 2) Bank One Center/Tower				
Address (line 3) 111 Monument Circle, Sui	te 3700			
Address (line 4) Indianapolis, IN 46204-	5137			
Pages Enter the total number of pagincluding any attachments.	ges of the attached conveyance docum	<b>ent</b> # 5		
<b>Application Number(s) or Patent Num</b>	ber(s) Mark if a	dditional numbers attached		
Enter either the Patent Application Number or the P				
Patent Application Number(s)	Patent	Number(s)		
09/105,124				
	——————————————————————————————————————			
If this document is being filed together with a <u>new</u> Pater signed by the first named executing inventor.	t Application, enter the date the patent application	n was <u>Month Day Year</u>		
Patent Cooperation Treaty (PCT)				
Enter PCT application number	PCT PCT	PCT		
only if a U.S. Application Number	PCT PCT	PCT		
has not been assigned.  Number of Properties				
Enter the total	al number of properties involved. #	1		
Fee Amount fe	or Properties Listed (37 CFR 3.41): \$	40.00		
Method of Payment: Enclos Deposit Account	sed X Deposit Account			
(Enter for payment by deposit account or if additional fees can be charged to the account.)  Deposit Account Number: # 23-3030				
A	uthorization to charge additional fees:	Yes X No		
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. Charges to deposit account are authorized, as indicated herein.

Signature

Troy	J.	Co1e			
	Na	me of	Person	Signing	-

April 6, 1999

Date

FORM PTO- Expires 06/30/99 OMB 0651-0027		J.S. Department of Commerce Patent and Trademark Office PATENT
Conveying F	Party(ies) Mark if additional names of conveying parties attached	
Enter additional	Conveying Parties	Execution Date Month Day Year
Name (line 1)	Alfred Schuppe	08/05/1998
Name (line 2)		]
		Execution Date
Name (line 1)	George M. Kuhns	Month Day Year 08/05/1998
_	JULI BU M. AGMIO	1
Name (line 2)		Execution Date
Name (line 1)		Month Day Year
		l L
Name (line 2)	-	
Receiving P	arty(ies) Mark if additional names of receiving parti	es attached
Enter additional	Receiving Party(ies)	
Name (line 1)		If document to be recorded is an assignment and the
Name (line 2)		receiving party is not domiciled in the United
		States, an appointment of a domestic representative
Address (line 1)		is attached. (Designation must be a separate
Address (line 2)		document from Assignment.)
Address (line 3)	City State/Country Zip Co	do.
	2.p co.	16
Name (line 1)		If document to be recorded is an assignment and the
Name (line 2)		receiving party is not domiciled in the United
		States, an appointment of a domestic representative is
Address (line 1)		attached. (Designation must be a separate document from
Address (line 2)		Assignment.)
<b>8 4 4 -</b>		<del></del>
Address (line 3)	City State/Country Zip C	ode
	Number(s) or Patent Number(s) Mark if additional numbers attached	· ·· -
	e Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the sa	
P.	atent Application Number(s) Patent Numb	er(s)

**REEL: 9894 FRAME: 0141** 

## ASSIGNMENT

WHEREAS, Matthew L. Schneider of 705 West 6th Street, Seymour, Indiana; Abhay P. Bhagwat of 811-C East 4th Street, #20, Seymour, Indiana 47274; Alfred Schuppe of 3751 Premier Drive, Columbus, Indiana 47203; and George M. Kuhns of 9656 W. Marshall Drive, Columbus, Indiana 47201, hereinafter referred to as Assignors, have made a new and useful invention in ENGINE CRANKCASE GAS BLOW-BY SENSOR for which Assignors have made or will make application for Letters Patent of the United States; and

WHEREAS, Cummins Engine Company, Inc., hereinafter referred to as Assignee, a corporation of the State of Indiana having a principal place of business at 500 Jackson Street, Columbus, Indiana 47201 desires to acquire all of the entire right, title, and interest in, to and under said invention disclosed, described and claimed or intended so to be in said application, and in, to and under said application, and in, to and under said application, and in, to and under any and all Letters Patent, United States and foreign, which may be obtained therefor and thereon;

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar (\$1.00) and other good, valuable and sufficient considerations to Assignors in hand paid, the receipt of which is hereby acknowledged, Assignors have sold, assigned and transferred, and by these presents do sell, assigns and transfers unto Assignee, all of the entire right, title, and interest in, to and under said invention disclosed, described and claimed or intended so to be in said application, and in, to and under said application for United States Letters Patent filed by Assignors on March 13, 1997, and assigned Serial No. 08/816,274, and any and all other applications thereon and arising therefrom, including any and all divisions and continuations thereof, and any and all patents to be issued and obtained therefor and thereon, United States and foreign, including all reissues and extensions thereof.

Assignors hereby authorize and request the Honorable Assistant Secretary and Commissioner of Patents and Trademarks to issue said Letters Patent to Assignee, its assigns and legal representatives.

Assignors agree to sign and execute any and all other papers necessary or desirable for the procurement of Letters Patent on said invention in this and all foreign countries for the use of Assignee.

WITNESS Assignor's hand this 5rd day of ayunt, 1998.

STATE OF Suttalone 2) SS:

Before me, a Notary Public, in and for said County and State, personally appeared the above-named Assignor, to me personally known, and who executed the foregoing Assignment in my presence and acknowledged the execution thereof as his free and voluntary act and deed for the uses and purposes therein set forth and expressed.

Veiky D. Jorn Notary Public

Printed: UCKY L. ISON

My Commission Expires:

Resident of Buttelinea County

WITNESS Assignor's hand this 5 day of August, 1998.

Clfred Schuppe

Alfred Schuppe

COUNTY OF Bartholoneu ) SS:

Before me, a Notary Public, in and for said County and State, personally appeared the above-named Assignor, to me personally known, and who executed the foregoing Assignment in my presence and acknowledged the execution thereof as his free and voluntary act and deed for the uses and purposes therein set forth and expressed.

Cocky Notary Public

Printed: VICKY L. ISON

My Commission Expires:

Resident of Buckelene County

02/14/2000

WITNESS Assignor's hand this 5th day of Queent, 1998.

George M. Kuhns

STATE OF Solona ) SS

09/14/2000

Before me, a Notary Public, in and for said County and State, personally appeared the above-named Assignor, to me personally known, and who executed the foregoing Assignment in my presence and acknowledged the execution thereof as his free and voluntary act and deed for the uses and purposes therein set forth and expressed.

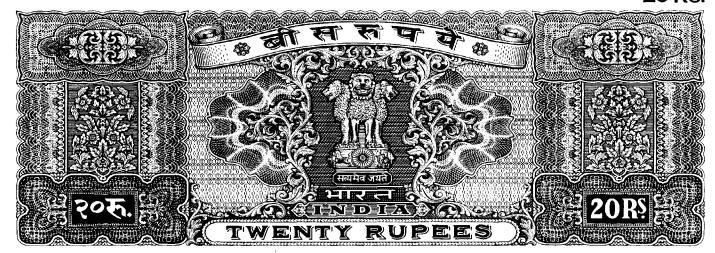
Visky S. So. Notary Public

Printed: UKKY L. FSON

My Commission Expires: Resident of Lutteline County

PATENT

**REEL: 9894 FRAME: 0145** 



मांब भरेर। अ. प्राण्या अपट्ट पता अ. प्राण्या अ. प्राण्या अ. प्राण्या प्राण्या अ. प्राण्या

S. H. Borse

956F

Atty.Dkt.8016-457/ID1470CON

## ASSIGNMENT

WHEREAS, Matthew L. Schneider of 705 West 6th Street, Seymour, Indiana: Abhay P. Bhagwat of 3, Laxmi Vishnu Apartment, 124-TNDIA 6B, Erandawana, Pune 411 004, Alfred Schuppe of 3751 Premier Drive, Columbus, Indiana 47203; and George M. Kuhns of 9656 W. Marshall Drive, Columbus, Indiana 47201, hereinafter referred to as Assignors, have made a new and useful invention in ENGINE CRANKCASE GAS BLOW-BY SENSOR for which Assignors have made or will make application for Letters Patent of the United States; and

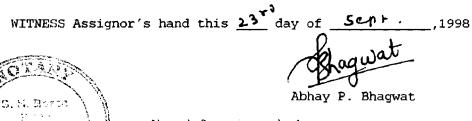
WHEREAS, Cummins Engine Company, Inc., hereinafter referred to as Assignee, a corporation of the State of Indiana having a principal place of business at 500 Jackson Street, Columbus, Indiana 47201 desires to acquire all of the entire right, title, and interest in, to and under said invention disclosed, described and claimed or intended so to be in said application, and in to and under said application, and in to and under any and all Letters Patent, United States and foreign, which may be obtained therefor and thereon;

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar (\$ 1.00) and other

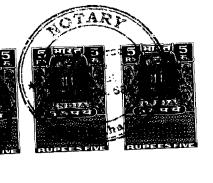
good, valuable and sufficient considerations to Assignors in hand paid, the receipt of which is hereby acknowledged, Assignors have sold, assigned and transferred, and by these presents do sell assigns and transfers unto Assignee, all of the entire right, title, and interest in, to and under said invention disclosed, described and claimed or intended so to be in said application, and in, to and under said application for United States Letters Patent filed by Assignors on March 13, 1997, and assigned Serial No. 08/816,274, and any and all other applications tehereon and arising therefrom, including any and all divisions and continuations thereof, and any and all patents to be issued and obtained therefor and thereon, United States and foreign, including all reissues and extensions thereof.

Assignors hereby authorise and request the Honorable Assistant Secretary and Commissioner of Patents and Trademarks to issue said Letters Patent to Assignee, its assigns and legal representatives.

Assignors agree to sign and execute any and all other papers necessary or desirable for the procurement of Letters Patent on said invention in this and all foreign countries for the use of Assignee.



Noted & topic and at Sr. No. A. 1.14.99...
Dt. 2-3.19158...



BEFORE ME

POSSIGNA

S. 11. ECFISE

LIOTO-TO

Maintenantal State

Pune District

My commission

Expires on Jan. 11.2000

**RECORDED: 04/09/1999**