

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT5978042

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ALLEN YAO CHEN	01/23/2020
AARON GARY HEINTZ	01/23/2020
JASON LEE VAN FAROWE	01/23/2020
THOMAS L. ATWELL	01/23/2020
DAVID L. LUEDERS	02/14/2020
JOHN W. MILEM	02/04/2020
PHANI CHANDAR REDDY KONATHAM	01/29/2020
SURESH BABU CHENNAGOWNI	01/24/2020
KHAIRUL HASSAN	02/24/2020
PARTHIPAN SUBRAMANIAN	01/28/2020
RECEIVING PARTY DATA	
Name:	CATERPILLAR INC.
Street Address:	100 NE ADAMS STREET
City:	PEORIA
State/Country:	ILLINOIS
Postal Code:	61629-9510
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16790824
CORRESPONDENCE DATA	
Fax Number:	(216)241-0816
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>	
Phone:	5136934876
Email:	IPDOCKET@CALFEE.COM
Correspondent Name:	MARK R. HULL
Address Line 1:	CALFEE, HALTER & GRISWOLD LLP
Address Line 2:	1405 EAST SIXTH STREET
Address Line 4:	CLEVELAND, OHIO 44114
ATTORNEY DOCKET NUMBER:	19-1043US01/37495.04072

PATENT

NAME OF SUBMITTER:	MARK R. HULL
SIGNATURE:	/MARK R. HULL/
DATE SIGNED:	02/24/2020
Total Attachments: 11 source=19-1043US01_Assignment_Chen_et_al_02_24_2020#page1.tif source=19-1043US01_Assignment_Chen_et_al_02_24_2020#page2.tif source=19-1043US01_Assignment_Chen_et_al_02_24_2020#page3.tif source=19-1043US01_Assignment_Chen_et_al_02_24_2020#page4.tif source=19-1043US01_Assignment_Chen_et_al_02_24_2020#page5.tif source=19-1043US01_Assignment_Chen_et_al_02_24_2020#page6.tif source=19-1043US01_Assignment_Chen_et_al_02_24_2020#page7.tif source=19-1043US01_Assignment_Chen_et_al_02_24_2020#page8.tif source=19-1043US01_Assignment_Chen_et_al_02_24_2020#page9.tif source=19-1043US01_Assignment_Chen_et_al_02_24_2020#page10.tif source=19-1043US01_Assignment_Chen_et_al_02_24_2020#page11.tif	

ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

INTERNAL COMBUSTION ENGINE WITH TOP-DOWN COOLING

for which I/We will or have filed a patent application; and

WHEREAS, **Caterpillar Inc.**, a corporation of Delaware, whose post office address is **100 NE Adams Street, Peoria, Illinois 61629-9510** (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, and in and to the patent application for this invention and any and all patents to be issued upon this application throughout the world;

NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/We, as Assignor(s), 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 patents which may be granted thereon, and all reissues thereof, as well as all rights to claim priority in any country or jurisdiction or patent office on the basis of this application, and all applications for patents which may hereafter be filed for this invention in any country or jurisdiction or patent office and all patents which may be granted on this invention in any country or jurisdiction or patent office, and all extensions, renewals, and reissues thereof; and I/We hereby authorize and request any official of any country or jurisdiction or patent office whose duty it is to issue patents on applications as described above, to issue all patents for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

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

AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/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 any country or jurisdiction or patent office, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns;

AND, I/WE HEREBY authorize the attorneys/representatives that I/WE have empowered to prosecute this application to insert here in parentheses the country, application number, and official filing date (US Application No. 16/790,824, filed 02/14/2020).

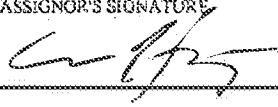
IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

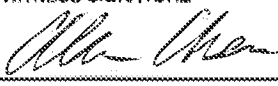
SOLE/JOINT INVENTION
(Worldwide Rights)
Attorney Docket No. 37495.04072
Client Ref. No. 19-1043US01

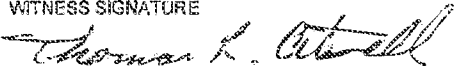
1. FULL NAME OF SOLE OR FIRST ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
Allen Yao Chen	<i>Allen Chen</i>	1/23/2020
ADDRESS		CITIZENSHIP
12517 N. Colony Road, Dunlap, IL 61525		US

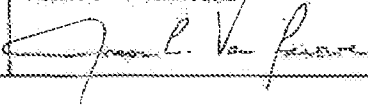
1. WITNESS NAME	WITNESS SIGNATURE	DATE
Thomas L. Atwell	<i>Thomas L. Atwell</i>	1/23/2020
ADDRESS		CITIZENSHIP
514 N. Wood Thrush Dr., Peoria, IL 61604		US

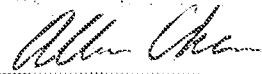
2. WITNESS NAME	WITNESS SIGNATURE	DATE
Aaron Hentz	<i>Aaron Hentz</i>	1-23-20
ADDRESS		CITIZENSHIP
30794 Dutch Ln, Washington IL 61571		US

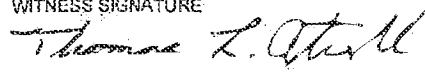
1. FULL NAME OF SOLE OR SECOND ASSIGNOR Aaron Gary Heintz	ASSIGNOR'S SIGNATURE 	DATE 1-23-20
ADDRESS 30794 Dutch Lane, Washington, IL 61571		CITIZENSHIP US

1. WITNESS NAME Allen Y. Chen	WITNESS SIGNATURE 	DATE 1/23/2020
ADDRESS 12517 N. Colony Rd, Dunlap, IL, 61525		CITIZENSHIP US

2. WITNESS NAME Thomas L. Atwell	WITNESS SIGNATURE 	DATE 1/23/2020
ADDRESS 514 N. Wood Thrush Dr, Peoria, IL 61604		CITIZENSHIP US

1. FULL NAME OF SOLE OR THIRD ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
Jason Lee Van Farowe		23 JAN 2020
ADDRESS		CITIZENSHIP
11614 N. Shane Road, Brimfield, IL 61517		US

1. WITNESS NAME	WITNESS SIGNATURE	DATE
Allen Y. Chen		1/23/2020
ADDRESS		CITIZENSHIP
12519 N. Colony Rd. Dunlap IL, 61525		US

2. WITNESS NAME	WITNESS SIGNATURE	DATE
Thomas L. Atwell		1/23/2020
ADDRESS		CITIZENSHIP
514 N. Wood Thrush Dr. Peoria, IL 61604		US

1. FULL NAME OF SOLE OR FOURTH ASSIGNOR Thomas L Atwell	ASSIGNOR'S SIGNATURE <i>Thomas L. Atwell</i>	DATE 1/23/2020
ADDRESS 514 N. Wood Thrush Drive, Peoria, IL 61604		CITIZENSHIP US

1. WITNESS NAME <i>Allen Chen</i>	WITNESS SIGNATURE <i>Allen Chen</i>	DATE 1/23/2020
ADDRESS 12517 N. Colony Rd, Dunker, IL 61525		CITIZENSHIP US

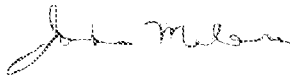
2. WITNESS NAME <i>Aaron Heintz</i>	WITNESS SIGNATURE <i>Aaron Heintz</i>	DATE 1-23-20
ADDRESS 30794 Dutch Ln, Washington, IL 61571		CITIZENSHIP US

SOLE/JOINT INVENTION
(Worldwide Rights)
Attorney Docket No. 37495.04072
Chem Ref. No. 19-1043US01

1. FULL NAME OF SOLA OR FIFTH ASSIGNOR		ASSIGNOR'S SIGNATURE	DATE
David L. Lueders			
ADDRESS			CITIZENSHIP
749 County Road 1500 N. Henry, IL 61537-9494			US
		<i>David L. Lueders</i>	2/14/2020

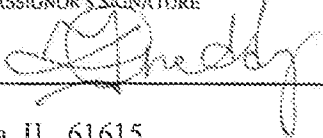
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ADDRESS			CITIZENSHIP

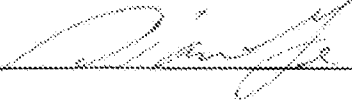
2. WITNESS NAME		WITNESS SIGNATURE	DATE
ADDRESS			CITIZENSHIP

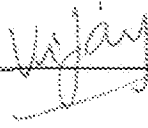
1. FULL NAME OF SOLE OR SIXTH ASSIGNOR John W. Milem	ASSIGNOR'S SIGNATURE 	DATE 2/4/2020
ADDRESS 15025 W. Winchester Drive, Brimfield, IL 61517		CITIZENSHIP US

1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

1. FULL NAME OF SOLE OR SEVENTH ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
Phani Chandar Reddy Konatham		1/29/2020
ADDRESS		CITIZENSHIP
1501 W. Coneflower Drive, Apt. 2113, Peoria, IL 61615		India

1. WITNESS NAME	WITNESS SIGNATURE	DATE
YE TEAN		1/29/2020
ADDRESS		CITIZENSHIP
2814 Degarmo Dr.		US
Bloomington, IL 61704		

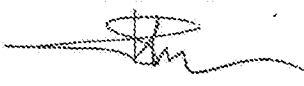
2. WITNESS NAME	WITNESS SIGNATURE	DATE
VIJAYA DARA		1/30/2020
ADDRESS		CITIZENSHIP
9814 N ANDY CT		US
PEORIA, IL-61615		

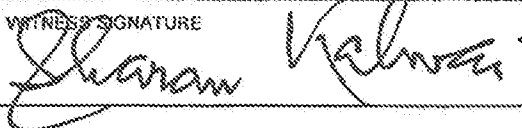
SOLE/JOINT INVENTION
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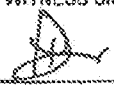
1. FULL NAME OF SOLE OR JOINT ASSIGNOR	<i>Suresh Chennagowri</i>	DATE
Suresh Babu Chennagowri		01/24/2020
ADDRESS		CITIZENSHIP
10815 N. Dorset Street, Peoria, IL 61615		INDIA

1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

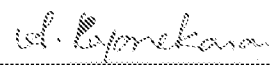
2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

1. FULL NAME OF SOLE OR NINTH ASSIGNOR Khairul Hassan		DATE 02/24/2020
ADDRESS 2315 W. Willow Knolls Drive, Apt. #503A, Peoria, IL 61614	CITIZENSHIP Bangladesh	
23900 Middlebelt Rd. Apt #2311, Farmington Hills, MI 48336, USA		

1. WITNESS NAME Sharan Kalwani	WITNESS SIGNATURE 	DATE 02/24/20
ADDRESS 1142 Terra Ct Rochester, MI 48306	CITIZENSHIP USA	

2. WITNESS NAME Nitesh Dudharia	WITNESS SIGNATURE 	DATE 02/24/20
ADDRESS 498 Hampton Circle #204 Rochester Hills, MI 48307	CITIZENSHIP India	

1. FULL NAME OF SOLE OR TENTH ASSIGNOR		DATE
Parthipan Subramanian		28/01/2020
ADDRESS	CITIZENSHIP	
31/6 Journalists' Colony, Srinivasapuram, Thiruvannamiyur, Chennai-600041, India	INDIA	

1. WITNESS NAME	WITNESS SIGNATURE	DATE
RAJASEKARAN ARUMUGAM		28/1/2020
ADDRESS	CITIZENSHIP	
Plot NO 42, SUGALI APIS, Anna Nagar 4th main Road, Velachery, Chennai	INDIAN	
GOD 042, India.		

2. WITNESS NAME	WITNESS SIGNATURE	DATE
BALAKRISHNAN GOPAL		30/1/2020
ADDRESS	CITIZENSHIP	
23/15, B2, DHANVANNA S, SOUTH MADA Street, Srinivasapuram	INDIAN	
Saidapet, Chennai-600 015, INDIA		