

## PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT4434990

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KEVIN L MARTIN	05/26/2017
VIVEK SUNDARARAJ	05/19/2017
PAUL ARTHUR ZWART	05/30/2017
RYAN ANTHONY LOZIER	05/26/2017
STEVEN R STORM	05/22/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CATERPILLAR INC.
<b>Street Address:</b>	100 NE ADAMS STREET
<b>City:</b>	PEORIA
<b>State/Country:</b>	ILLINOIS
<b>Postal Code:</b>	61626
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15607911
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(309)675-1236
<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>	
<b>Phone:</b>	3096362223
<b>Email:</b>	US_Docket_Clerk@cat.com
<b>Correspondent Name:</b>	CATERPILLAR INC./LAW OFFICE OF KURT J. F
<b>Address Line 1:</b>	100 N.E. ADAMS STREET
<b>Address Line 2:</b>	AH 9510
<b>Address Line 4:</b>	PEORIA, ILLINOIS 61629-9510
<b>ATTORNEY DOCKET NUMBER:</b>	17-0372
<b>NAME OF SUBMITTER:</b>	KURT J FUGMAN
<b>SIGNATURE:</b>	/Kurt J Fugman/
<b>DATE SIGNED:</b>	05/30/2017
<b>Total Attachments: 6</b>	

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## ASSIGNMENT

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

### 3D PRINTED HEAT EXCHANGER

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, State of Illinois 61629** (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 Assignee or the attorneys/representatives of Assignee to insert here in parentheses the country, application number, and official filing date ( US Application No. 15607911, filed May 30, 2017 ).

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

1. FULL NAME OF SOLE OR FIRST ASSIGNOR <b>Kevin L. Martin</b>	ASSIGNOR'S SIGNATURE 	DATE <u>5/26/17</u>
ADDRESS <b>18 State Route 26, Washburn, IL, 61570</b>		CITIZENSHIP <b>US</b>

SOLE/JOINT INVENTION  
(Worldwide Rights)  
Attorney Docket No. 17-0372  
Client Ref. No. 17-0372

1. WITNESS NAME Brittany Hancock	WITNESS SIGNATURE <i>Brittany Hancock</i>	DATE 5-26-17
ADDRESS 1607 Holland Court Chillicothe, IL 61523		CITIZENSHIP USA

2. WITNESS NAME WESTON CHARLES KELLEY	WITNESS SIGNATURE <i>Weston Kelley</i>	DATE 05/26/17
ADDRESS 5100 W GREENRIDGE CT PEORIA IL 61615		CITIZENSHIP U.S.

2. FULL NAME OF SOLE OR FIRST ASSIGNOR Vivek Sundararaj	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 10024 Brompton Ct, Peoria, IL, 61615		CITIZENSHIP India

1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

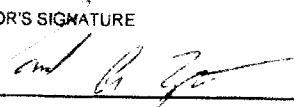
1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP


2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP


2. FULL NAME OF SOLE OR FIRST ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
Vivek Sundararaj	<i>[Signature]</i>	05/19/2017
ADDRESS 10024 Brompton Ct, Peoria, IL, 61615		CITIZENSHIP India


1. WITNESS NAME	WITNESS SIGNATURE	DATE
Mohammad Karim	<i>[Signature]</i>	05/19/2017
ADDRESS 2412 W Melly Ln, Dunlap, IL-61525		CITIZENSHIP U.S.A

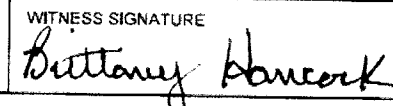
2. WITNESS NAME	WITNESS SIGNATURE	DATE
Umakanth Sakaray	<i>[Signature]</i>	05/19/2017
ADDRESS 3305 W Boulder point Ct, 61525 Dunlap, IL		CITIZENSHIP India

3. FULL NAME OF SOLE OR FIRST ASSIGNOR <b>Paul Arthur Zwart</b>	ASSIGNOR'S SIGNATURE 	DATE <b>5/30/2017</b>
ADDRESS <b>10928 North Hunters Trail Court, Dunlap, IL, 61525</b>		CITIZENSHIP <b>US</b>


1. WITNESS NAME <b>JOE TAYLOR</b>	WITNESS SIGNATURE 	DATE <b>5/30/17</b>
ADDRESS <b>5651 N. HAMMILL RD. PEORIA, IL 61614</b>		CITIZENSHIP <b>US</b>

2. WITNESS NAME <b>RYAN LOZIER</b>	WITNESS SIGNATURE 	DATE <b>5/30/17</b>
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1. WITNESS NAME <b>Brittany Hancock</b>	WITNESS SIGNATURE 	DATE <b>5-26-17</b>
ADDRESS <b>1607 Holland Court Chillicothe, IL 61523</b>		CITIZENSHIP <b>USA</b>

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2. WITNESS NAME WESTON CHARLES KELLEY	WITNESS SIGNATURE 	DATE 05/26/17
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5. FULL NAME OF SOLE OR FIRST ASSIGNOR Steven R. Storm	ASSIGNOR'S SIGNATURE	DATE
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1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

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2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

5. FULL NAME OF SOLE OR FIRST ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
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1. WITNESS NAME	WITNESS SIGNATURE	DATE
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2. WITNESS NAME	WITNESS SIGNATURE	DATE
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