505255927 12/28/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5302699

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JONATHAN M. BAUMANN	12/18/2018
JUSTIN D. MIDDLETON	12/27/2018

RECEIVING PARTY DATA

Name:	CATERPILLAR INC.
Street Address:	510 LAKE COOK ROAD
Internal Address:	SUITE 100
City:	DEERFIELD
State/Country:	ILLINOIS
Postal Code:	60015

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16235012

CORRESPONDENCE DATA

Fax Number: (312)977-9959

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.

Phone: 3129779902

Email: keriks@millermatthiashull.com MILLER, MATTHIAS & HULL LLP **Correspondent Name:** Address Line 1: ONE NORTH FRANKLIN STREET

Address Line 2: **SUITE 2350**

Address Line 4: CHICAGO, ILLINOIS 60606

ATTORNEY DOCKET NUMBER:	50100/18-1007-70212
NAME OF SUBMITTER:	JENNIFER L. HOLMES
SIGNATURE:	/Jennifer L. Holmes/
DATE SIGNED:	12/28/2018

Total Attachments: 3

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PATENT REEL: 047868 FRAME: 0553 505255927

JOINT INVENTION (Worldwide Rights) Attorney Docket No. 50100/18-1007-70212 Client Ref. No. 18-1007-70212

ASSIGNMENT

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

BATTERY PACKAGING ASSEMBLY WITH SAFETY FEATURES TO REDUCE THERMAL PROPAGATION

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

WHEREAS, Caterpillar Inc., a Delaware corporation having a place of business at 510 Lake Cook Road, Suite 100, Deerfield, Illinois 60015, U.S.A. (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 filed herewith.

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

Page 1 of 3

PATENT REEL: 047868 FRAME: 0554

JOINT INVENTION (Worldwide Rights) Attorney Docket No. 50100/18-1007-70212 Client Ref. No. 18-1007-70212

1. FULL NAME SOLE OR FIRST ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
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JOINT INVENTION (Worldwide Rights) Attorney Docket No. 50100/18-1007-70212 Client Ref. No. 18-1007-70212

2. FULL NAME SOLE OR FIRST ASSIGNOR Justin D. Middleton	ASSIGNOR'S SIGNATURE	DATE 12/27/2018
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