

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT7090669

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
LAWRENCE HILLIGOSS	11/15/2021
DANIEL RIEGELS	11/28/2021
MATTHEW D. NELSON	10/13/2021
TYLER RASH	11/16/2021
RICH VAUGHAN LEWIS	11/01/2021
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CUMMINS INC.
<b>Street Address:</b>	500 JACKSON STREET
<b>City:</b>	COLUMBUS
<b>State/Country:</b>	INDIANA
<b>Postal Code:</b>	47201
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	17381928
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(317)237-1000
<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>	3172370300
<b>Email:</b>	cummins.ip@faegredrinker.com
<b>Correspondent Name:</b>	ROBERT D. NULL
<b>Address Line 1:</b>	300 NORTH MERIDIAN STREET, SUITE 2500
<b>Address Line 4:</b>	INDIANAPOLIS, INDIANA 46204
<b>ATTORNEY DOCKET NUMBER:</b>	CI-1943-01-US
<b>NAME OF SUBMITTER:</b>	ROBERT D. NULL
<b>SIGNATURE:</b>	/robert d. null/
<b>DATE SIGNED:</b>	12/23/2021
<b>Total Attachments: 6</b>	
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# ASSIGNMENT

Attorney Docket No.: C1-1943-01-US

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First Named Inventor: Lawrence Hilligoss

Title: DETECTING THERMAL EVENTS IN BATTERY PACKS

WHEREAS, we, **Lawrence Hilligoss**, residing at 534 Ann Street, Ashland, Oregon 97520; **Daniel Riegels**, residing at 1019 Clay Street, Ashland, Oregon 97520; **Matthew D. Nelson**, residing at 753 S. Stage Road, Medford, Oregon 97501; **Tyler A. Rash**, residing at 3378 Briar Drive, Columbus, Indiana 47203 and **Rick Lewis**, residing at 1353 Kyle Street, Medford, Oregon 97501, have invented certain new and useful improvements as described in a patent application entitled **DETECTING THERMAL EVENTS IN BATTERY PACKS**, filed with the United States Patent and Trademark Office ("USPTO") on July 21, 2021; and designated United States Patent Application Serial No. 17/381,928 the "Application"); and

WHEREAS, **Cummins Inc.** a corporation of the State of Indiana, and having an at address 500 Jackson Street, Columbus, Indiana 47201 ("Assignee"), is desirous of acquiring the entire right, title and interest in and to the invention, the Application, and any and all Letters Patent or similar legal protection, foreign or domestic, to be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, the undersigned hereby transfer and assign to Assignee, its successors and assigns, the entire right, title, and interest in and to the inventions, the Application, corresponding United States (US) applications (including provisionals, nonprovisionals, divisionals, continuations, continuations-in-part, reissues, reexaminations, substitutions and extensions thereof), corresponding non-US applications, all Letters Patent or similar legal protection issuing thereon (and absolute entitlement thereto), all rights and benefits under any applicable treaty or convention, all rights to apply for, prosecute, and obtain patents or similar legal protection anywhere in the world (in its own name if desired), all rights to claim priority to the Application, and all rights of action and damages for any past, present or future infringement relating thereto, including all rights of actions and damages from publication of any of the aforementioned patent applications and/or issuance of any patent relating thereto;

The undersigned will not execute any writing or do any act whatsoever conflicting with these obligations, and will, at any time upon request, without further or additional consideration, execute such additional assignments and other writings and do such additional acts as Assignee may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining any original, divisional, continuation, continuation-in-part, reexamination, or reissue patent or application (or substitutions or extensions) of the United States or of any and all non-US countries on said inventions, and in enforcing any rights or choses in action accruing as a result of such applications or patents, by (including, without limitation) giving testimony in any proceedings or transactions involving such applications or patents, and by executing preliminary statements and other affidavits (where said Assignee will reimburse the undersigned for reasonable expenses associated with such enforcement assistance). The foregoing covenant and agreement shall inure to the benefit of the assigns and legal representatives of the undersigned and Assignee; and the undersigned authorize the Commissioner of Patents and Trademarks of the United States or non-US equivalent thereof to issue the Letters Patent or similar legal protection to the Assignee.

The undersigned authorize the Assignee, its successors and assigns, or anyone it may properly designate, to insert in this instrument the filing date and application number of the Application when ascertained.

IN WITNESS WHEREOF, we have hereunto set our hand and affixed my seal on the date indicated below:

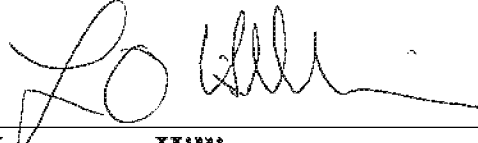
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First Named Inventor: Lawrence Hilligoss

Title: DETECTING THERMAL EVENTS IN BATTERY  
PACKS



**Lawrence Hilligoss**

Date NOV 15, 2021

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First Named Inventor: Lawrence Hilligoss

Title: DETECTING THERMAL EVENTS IN BATTERY PACKS

/Daniel Riegels/

**Daniel Riegels**

Date **11/28/2021**

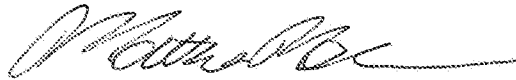
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First Named Inventor: Lawrence Hilligoss

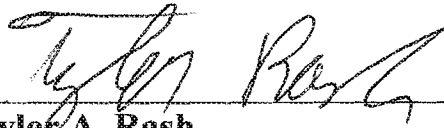
Title: DETECTING THERMAL EVENTS IN BATTERY  
PACKS



**Matthew D. Nelson**

Date 2021/10/13

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	First Named Inventor: Lawrence Hilligoss	
	Title: DETECTING THERMAL EVENTS IN BATTERY PACKS	



**Tyler A. Rash**

Date 11-16-2021

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First Named Inventor: Lawrence Hilligoss

Title: DETECTING THERMAL EVENTS IN BATTERY  
PACKS

*Rick Vaughan Lewis*

**Rick Lewis**

Date 11/01/21