507422114 08/04/2022

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RALF BUTTERWECK	07/17/2022
CAS BREEDIJK	07/19/2022
PIERRE BALDUCCI	08/02/2022

RECEIVING PARTY DATA

Name:	BORGWARNER LUXEMBOURG AUTOMOTIVE SYSTEMS S.A.	
Street Address:	AVENUE DE LUXEMBOURG	
City:	BASCHARAGE	
State/Country:	LUXEMBOURG	
Postal Code:	4940	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17797518

CORRESPONDENCE DATA

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using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 6167525000 Email: patents@wnj.com

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Address Line 4: GRAND RAPIDS, MICHIGAN 49503-2832

ATTORNEY DOCKET NUMBER: 200451.204165 NAME OF SUBMITTER: RANDALL J. PECK SIGNATURE: /Randall J. Peck/ **DATE SIGNED:** 08/04/2022

Total Attachments: 4

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> **PATENT** REEL: 060719 FRAME: 0477 507422114

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PATENT REEL: 060719 FRAME: 0478

For good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, I/we the undersigned owner(s) (assignor(s)),

ASSIGNORS (inventor(s)):

Raff BUTTERWECK Bitburg 54634, Germany

Cas BREEDIJK Kanfen 57330, France

Pierre BALDUCCI 57650 Havange 57650, France

Hereby sell, assign and transfer to

ASSIGNEE: BorgWarner Luxembourg Automotive Systems S.A. Avenue de Luxembourg, 4940 BASCHARAGE (LU)

and the successors and assigns of the ASSIGNEE, the entire right, title and interest for the United States and its territorial possessions and in all foreign countries, including all rights to claim priority in and to any and all improvements which are disclosed in the invention referenced DP-325014 and entitled

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and which is found in U.S. Patent Application No. 17/797,518 filed on 04 August 2022 and PCT Application No. PCT/EP2021/052892 filed on 06 February 2021 which claims priority to Great Britain Application No. 2001710.9 filed on 07 February 2020 and any legal equivalent thereof in a foreign country, including the right to claim priority, and, in and to, all Letters Patent to be obtained for said invention or arising from or claiming priority to any of the above identified patent applications, or any national filing, continuation, division, renewal, or substitute thereof arising from or claiming priority to any of the above identified patent applications, and as to letters patent any re-issue or re-examination thereof.

To comply with 37 C.F.R. § 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request the ASSIGNEE, or its designate, to insert the filing dates and serial numbers of the above identified patent applications when they become known in the space above if not already provided.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNORS and ASSIGNORS will testify as to the same in any interference, litigation or proceeding related thereto.

PATENT REEL: 060719 FRAME: 0479

ASSIGNORS further covenant to promptly execute and deliver to ASSIGNEE or its successors or assigns any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof and to execute any divisional or continuing application or applications which may be necessary or proper to obtain full protection on the invention hereby assigned; and to execute any and all supplemental oaths and preliminary statements, should the same be necessary or desirable in the prosecution of the aforesaid applications and to carry out the purposes thereof.

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		Pierre BALDUCCI (inventor)

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	Raif BUTTERWECK (inventor)
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IN TESTIMONY WHEREC	OF I have hereunto set my hand and affixed my seal this, 2022.
	Pierre BALDUCCI (inventor)



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	Ralf BUTTERWECK
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Pierre BALDUCC (inventor)