

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT8027921

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	FORSCHUNGSZENTRUM JUELICH GMBH	06/06/2023
RECEIVING PARTY DATA		
Name:	ROLLS-ROYCE DEUTSCHLAND LTD & CO KG	
Street Address:	ESCHENWEG 11	
City:	BLANKENFELDE-MAHLOW	
State/Country:	GERMANY	
Postal Code:	15827	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Patent Number:	11073029
CORRESPONDENCE DATA		
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NAME OF SUBMITTER:	TIMOTHY J. KLIMA	
SIGNATURE:	/TIMOTHY J. KLIMA/	
DATE SIGNED:	06/27/2023	
Total Attachments: 2		
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NONPROVISIONAL PATENT ASSIGNMENT**Assignee Reference
No.****RR386US // 28590-0002**

Please return notice of recordation to:

[Customer Number: 23486]

Shuttleworth & Ingersoll, PLC115 3rd Street SE, Suite 500

Cedar Rapids, IA 52401

Phone: (319) 365-9461**Fax: (319) 365-8443****Email: uspto@shuttleworthlaw.com**

For good and valuable consideration paid to the undersigned (ASSIGNOR), the receipt and sufficiency of which are hereby acknowledged by the undersigned, to wit:

INSERT ASSIGNOR NAME	FORSCHUNGSZENTRUM JUELICH GMBH Wilhelm-Johnen-Strasse 52428 Juelich GERMANY
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the undersigned hereby sell(s), assign(s) and transfer(s) unto and at the request of:

INSERT ASSIGNEE NAME & ADDRESS	ROLLS-ROYCE DEUTSCHLAND LTD & CO KG Eschenweg 11 15827 Blankenfelde-Mahlow GERMANY
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(hereinafter "ASSIGNEE"), Assignor's entire right, title and interest in the invention in the United States ("US"), its territorial possessions and all foreign countries, including all applications therefor, including any and all previously filed applications, and any and all future divisions, continuations, substitutes, reissues, renewals, foreign and PCT applications thereof (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from said applications), and any and all resulting patents, the invention as follows:

INVENTION	CONSTRUCTION ELEMENT HAVING A BOND STRUCTURE FOR A TURBO ENGINE, METHOD FOR THE PRODUCTION OF A CONSTRUCTION ELEMENT HAVING A BOND STRUCTURE FOR A TURBO ENGINE, AND TURBO ENGINE HAVING A CONSTRUCTION ELEMENT HAVING A BOND STRUCTURE U.S. Patent No. 11,073,029 Issued July 27, 2021
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The undersigned hereby authorize(s) and request(s) patent office officials in the US, its territorial possessions and all foreign countries, to issue any and all said patents to ASSIGNEE (including its successors and assigns) for its sole use and benefit; the undersigned agree(s) that the attorney of record in said applications shall hereinafter act on behalf of ASSIGNEE (including its successors and assigns).

The undersigned hereby agree(s) to testify, make oaths, execute papers and assist in any manner ASSIGNEE (including its successors and assigns) and its representatives, as deemed necessary by ASSIGNEE (including its successors and assigns) for ASSIGNEE'S (including its successors and assigns) full protection and title in and to the invention in the US, its territorial possessions and all foreign countries.

The undersigned hereby authorize(s) Shuttleworth & Ingersoll, PLC of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

IN WITNESS WHEREOF, Assignor has caused this Assignment to be executed this 06. June, 2023.

ASSIGNOR: FORSCHUNGSZENTRUM
JUELICH GMBH

By: _____

Printed Name: I. V. Dr. Paul Vaessen

By: _____

Printed Name: I. V. Dr. Karin Hoppe

WITNESS:

Witness Printed Name: Nathalie Schmid