PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
CHATHURA K KANNANGARA	12/20/2019
PUNITHA KAMESH	12/23/2019
JILLIAN C GASKELL	12/20/2019

RECEIVING PARTY DATA

Name:	Rolls-royce Plc		
Street Address: Kings Place, 90 York Way			
City:	y: London		
State/Country:	Great Britain		
Postal Code:	N1 9FX		

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16824270

CORRESPONDENCE DATA

Fax Number: (703)836-2787

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: 703-836-6400 Email: email@oliff.com **Correspondent Name:** JAMES A. OLIFF Address Line 1: **OLIFF PLC**

Address Line 2: P.O. BOX 320850

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ATTORNEY DOCKET NUMBER:	190926
NAME OF SUBMITTER:	VARSHA RAVICHANDRAN
SIGNATURE:	/Varsha Ravichandran/
DATE SIGNED:	03/19/2020

Total Attachments: 4

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PATENT REEL: 052170 FRAME: 0795

ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e)) For Application with Filing Date on or after September 16, 2012

ASSIGNMENT

(1-8) Insert Legal Name(s) of Inventor(s)			GASKELL, Jillian C; KANNANGARA, Chathura K; KAMESH, Punitha		
			or (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt and orledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to		
(9)	Insert Name of Assig	gnee ROLLS-ROYCE plc			
(10)	Insert Address of Assignee		Kings Place, 90 York Way, London N1 9FX, GB		
(11)	for the United States of Ameri provisional, non-provisional, of Patent, extensions, reissues an Insert Identification	ca as defi divisional	and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest ned in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all continuation, international, confirmation, substitute and reissue application(s), and all Letters ination certificates that may be granted on the invention known as Shaft Bearings		
	such as Title, Case Number, or Foreign		7332 RG		
	Application		rney Docket No)		
(12)	Alternative	(12)	U.S. Application Number		
	Identification for				
	filed applications	filed			
		also to	execute all papers necessary in connection with any application and/or patent execute separate assignments in connection with such applications and patents		

- as the Assignee may deem necessary.
- 2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning any application or patents for the invention and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.
- 3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.
- 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office and other issuing authorities to issue any and all patents resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal
- 6) Each undersigned hereby grants the Assignee's agent the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

(13) Declaration

As an above named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for which this declaration is being submitted.

The application was made or authorized to be made by me.

I have reviewed and understand the contents of the above-identified application, including the claims, and am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

In witness whereof, executed by the undersigned on the date opposite the undersigned name.

Inven	tor					
(Print	name)	GASKELL	, Jillian C			
Date	20	DECEMBER	2019	Inventor Signature	1 6 alul	(SEAL)
Cons					a Notary Public if within the U.S.A. (b) a d before at least two witnesses who also s	
Date	20	DECEMBER	2019	Witness	Justo	
D-4:	70	DECEMBER	7019	W/4	CAND-	

(13) Declaration

As an above named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for which this declaration is being submitted.

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In witness whereof, executed by the undersigned on the date opposite the undersigned name.

inventor			
(Print na	KANNANGARA, Cha	athura K	
Date 2	20 DECEMBER 2019	nventor Signature	Hannangare (SEAL
			a Notary Public if within the U.S.A. (b) a U.S. before at least two witnesses who also sign here:
Date 2	20 DECEMBER 2019	Witness	July
Date	ZO DECEMBER ZOIG	Witness	CM

PATENT DECEMBER 2019
2170 FPANT

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(13) Declaration

As an above named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for which this declaration is being submitted.

The application was made or authorized to be made by me.

I have reviewed and understand the contents of the above-identified application, including the claims, and am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

In witness whereof, executed by the undersigned on the date opposite the undersigned name.

Inventor					
(Print name)	KAMESE	I, Punitha		ORIN	
Date 23 AECE	EMBER	2019	Inventor Signature	V.16	(SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date 23 DECAMBER 2019 Witness

Mulliple

Mitness

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RECORDED: 03/19/2020