PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT8036593

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ANAND GOVINDANKUTTY	06/30/2023
HELIO CARDOSO	11/17/2021
FIVOS PANAGIOTOPOULOS	11/08/2021
NILESH SINGH	11/08/2021

RECEIVING PARTY DATA

Name:	JAGUAR LAND ROVER LIMITED
Street Address:	ABBEY ROAD
City:	WHITLEY, COVENTRY, WARWICKSHIRE
State/Country:	GREAT BRITAIN
Postal Code:	CV3 4LF

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	17595134	

CORRESPONDENCE DATA

Fax Number:

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: 9712718020

Email: foreigninbound@mccrus.com
Correspondent Name: MCCOY RUSSELL LLP

Address Line 1: 1410 NW JOHNSON ST, STE 201
Address Line 4: PORTLAND, OREGON 97209

ATTORNEY DOCKET NUMBER:	JLR213146PCTUS
NAME OF SUBMITTER:	LAURA BEATY
SIGNATURE:	/Laura Beaty/
DATE SIGNED:	06/30/2023

Total Attachments: 4

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PATENT 507989455 REEL: 064130 FRAME: 0167

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PATENT REEL: 064130 FRAME: 0168

WHEREAS, we, the following named inventors:

- 1. Anand GOVINDANKUTTY, residing in Coventry, Warwickshire, Great Britain:
- 2. Helio CARDOSO, residing in Coventry, Warwickshire, Great Britain;
- 3. Fives PANAGIOTOPOULOS, residing in Coventry, Warwickshire, Great Britain; and
- 4. Nilesh SINGH, residing in Coventry, Warwickshire, Great Britain;

We have invented an invention entitled APPARATUS AND METHOD FOR USE WITH A VEHICLE, for which we have executed an application for Letters Patent of the United States (check one):

() on the date we executed this assignment;	
(X) as U.S. Patent Application No. <u>17/595,134</u>	, filed November 09, 2021;
() as International Application No	, filed
We authorize the attorneys/agents authorized to act unde	er Customer Number 145572 to insert the
filing date and application number of said application when know	vn.

WHEREAS, JAGUAR LAND ROVER LIMITED ("Assignce"), a Great Britain organization, having its principal place of business at Abbey Road, Whitley, Coventry, Warwickshire, CV3 4LF Great

Britain, is desirous of acquiring an interest therein;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we, the above named inventors, have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto Assignee, the full and exclusive right to the above-identified invention in the United States and its territorial possessions and in all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries, and in and to any and all divisions, reissues, continuations and extensions thereof, and all priority rights under all present or future conventions and treaties, and any provisional applications for which priority is claimed.

We hereby authorize and request the Patent Office officials in the United States and any and all foreign countries to issue any and all of said Letters Patent, when granted, to Assignee, as the assignee of our entire right, title and interest in and to the same, for the sole use of the Assignee, their successors and assigns.

Further, we agree that we will communicate to Assignee, or their representatives, any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitution, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to Assignee, make all rightful oaths and generally do everything possible to aid Assignee, their successors and assigns, to obtain and enforce proper protection for said invention in the United States and in any and all foreign countries.

IN TESTIMONY WHEREOF, we have be	reunto set our hands on the dates	s indicated below.
Inventor Name: Anand GOVINDANKUTTY	Signature: 1504	_Date <u>40/04/04</u>
2 Inventor Name: Helio CARDOSO		
3. Inventor Name: Fives PANAGIOTOPOULOS	Signature:	_ Date
4. Inventor Name: Nilesh SINGH	Signature	Date:

Page 1 of 1 - ASSIGNMENT - Docket No. JLR213146PCTUS, Client Ref. JLRP11035US1

PATENT REEL: 064130 FRAME: 0169

WHEREAS, we, the following named inventors:

- 1. Anand GOVINDANKUTTY, residing in Coventry, Warwickshire, Great Britain;
- 2. Helio CARDOSO, residing in Coventry, Warwickshire, Great Britain;
- 3. Fivos PANAGIOTOPOULOS, residing in Coventry, Warwickshire, Great Britain; and
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IN TESTIMONY WHEREOF, we have hereunto set our hands on the dates indicated below.

Ι.	Inventor Name:	Anand GOVINDANKUTTY	_Signature:	Date:
2.	Inventor Name:	Helio CARDOSO		
3,	Inventor Name:	Fivos PANAGIOTOPOULOS	Signature:	Date:
4.	Inventor Name:	Nilesh SINGH	Signature:	Date:

Page 1 of 1 - ASSIGNMENT - Docket No. JLR213146PCTUS; Client Ref. JLRP11055US1

WHEREAS, we, the following named inventors:

- 1. Anand GOVINDANKUTTY, residing in Coventry, Warwickshire, Great Britain;
- 2. Helio CARDOSO, residing in Coventry, Warwickshire, Great Britain;
- 3. Fivos PANAGIOTOPOULOS, residing in Coventry, Warwickshire, Great Britain; and
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	rize the attorneys/agents author plication number of said applica			er 145'572 to linsert the
having its principal Britain, is desirous NOW, The hereby acknowled presents do sell, invention in the Utitle and interest ir its territorial posses continuations and treaties, and any properties to entire right, title are further; was respecting said continuation, substany and all of said possible to aid A	AS, JAGUAR LAND ROVER all place of business at Abbey Is of acquiring an interest therein; IEREFORE, for good and valua ged, we, the above named inveassign, and transfer unto Assignited States and its territorial poland to any and all Letters Paterssions and in any and all foreign extensions thereof, and all prirovisional applications for which y authorize and request the Pato issue any and all of said Letters of interest in and to the same, for the agree that we will communical invention, and testify in any legatifution, renewal and reissue applicaters Patent to be issued to Assignee, their successors and a nited States and in any and all for	Road, Whitley, ble consideration that is, have so nee, the full a seessions and int which may be countries, are ority rights unpriority is claiment Office office Patent, when the sole use of te to Assignee, all proceeding, silications, execusignee, make a ssigns, to obta	Coventry, Warwick on, the receipt and sold, assigned, and trand exclusive right in all foreign countries granted therefor indicate all present or indeals in the United granted, to Assigned the Assignee, their sor their representating all lawful papers the all necessary assign and enforce pro	ufficiency of which are insferred, and by these to the above-identified es, and the entire right, in the United States and all divisions, reissues, future conventions and states and any and all e, as the assignee of our successors and assigns wes, any facts known to be execute all divisional, gnment papers to cause generally do everything
IN TESTI	MONY WHEREOF, we have he	ereunto set our	hands on the dates in	idicated below.
1. Inventor Name;	Anand GOVINDANKUTTY	Signature:		Date:
2. Inventor Name:	Helio CARDOSO	Signature:		Date:
3. Inventor Name:	<u>Fivos PANAGIOTOPOULOS</u>	Signature:	dollas	Date: 8/11/21

_Signature;___

Page 1 of 1 - ASSIGNMENT - Docket No., JLR213146PCTUS; Client Ref. JLRP11055US1

4. Inventor Name: Nilesh SINGH

_____Date:____

WHEREAS, we, the following named inventors:

- 1. Anand GOVINDANKUTTY, residing in Coventry, Warwickshire, Great Britain;
- 2. Helio CARDOSO, residing in Coventry, Warwickshire, Great Britain;
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having its principal Britain, is desirous NOW, Thereby acknowled presents do sell, a invention in the Utitle and interest ir its territorial posses continuations and treaties, and any proceed with the process of the principal series of the process of the principal series of the process of the principal series of the process of the pro	AS, JAGUAR LAND ROVER all place of business at Abbey R is of acquiring an interest therein; HEREFORE, for good and valuable ged, we, the above named inversassign, and transfer unto Assign inted States and its territorial post and to any and all Letters Patent existences and in any and all foreign extensions thereof, and all price rovisional applications for which play authorize and request the Pater is issue any and all of said Letters and interest in and to the same, for the agree that we will communicate invention, and testify in any legal titution, renewal and reissue applications. Letters Patent to be issued to Assisting the same and all foreign and the same applications, renewal and reissue applications and all foreign and respectively.	oad, Whitley, Coventry, Vole consideration, the receintors, have sold, assigned thee, the full and exclusive sessions and in all foreign to which may be granted the countries, and in and to prity rights under all prespriority is claimed. For the Patent, when granted, to the sole use of the Assigned to Assignee, or their representations, execute all necessignee, make all rightful oassigns, to obtain and enforced.	pt and sufficiency of which are, and transferred, and by these e right to the above-identified a countries, and the entire right herefor in the United States and any and all divisions, reissues, ent or future conventions and United States and any and all Assignee, as the assignee of our e, their successors and assigns. The resentatives, any facts known to all papers, execute all divisional eary assignment papers to cause this and generally do everything
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3. Inventor Name:	Fivos PANAGIOTOPOULOS	_Signature:	Date:
4. Inventor Name:	Nilesh SINGH	<i>Nilash Kuma</i> Signature:	Date: er Singh Date: 8/11/2021

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RECORDED: 06/30/2023