PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
KARL LUDVIGSSON	11/07/2016
MAGNUS PERSSON	11/08/2016

RECEIVING PARTY DATA

Name:	BORGWARNER TORQTRANSFER SYSTEMS AB
Street Address:	P. O. BOX 505
City:	LANDSKRONA
State/Country:	SWEDEN
Postal Code:	S-261 24

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16336636

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.

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Correspondent Name: BROOKSGROUP
Address Line 1: 48685 HAYES RD.

Address Line 4: SHELBY TOWNSHIP, MICHIGAN 48315

ATTORNEY DOCKET NUMBER:	0001.0044.001	
NAME OF SUBMITTER:	CARY W. BROOKS	
SIGNATURE:	/Cary W. Brooks/	
DATE SIGNED:	05/22/2019	

Total Attachments: 2

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PATENT 505488641 REEL: 049254 FRAME: 0327

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned:

Inventor Name (Assignor):	Address:	
Karl Ludvigsson	Sturegatan 3 265 72 KVIDINGE Sweden	
Magnus Persson	Pilvägen 33 263 63 VIKEN Sweden	

a company of Sweden	BorgWarner TorgTransfer Systems AB (the "Assignee"), (country) having a place of business at
P.O. Box 505, 261 24 LANDSKRO	NA (address),
its successors and assigns, the concerns Sweden and all foreign	entire worldwide right, title and interest, so far as
i) the invention(s) and/or impr A LUBRICATION SYSTEM FOR AN A	ovement(s) entitled: XLE DRIVE
is to be filed, or is filed concurre	r any other application for intellectual property protection ently herewith, or was filed under application number on September 29, 2016
ii) said patent application;	
	nt applications on which priority is daimed, including patent application numberfiled
including continuations, continusubstitutes, reissues, reexamination convention, International (e.g.,	pplication(s) in Sweden or a country foreign thereto, lations-in-part, divisionals, conversions, renewals, ations, extensions, non-provisional applications, Patent Cooperation Treaty (PCT)), regional (e.g. ons) and other applications based in whole or in part upor application(s);

- v) any and all Letters Patent, renewals, reissues, reexamination certificates and extensions of Letters Patent granted for said invention(s) or upon said application(s); and
- vi) every priority right that is or may be predicated upon or arise from said invention(s), said application(s) and said Letters Patent.

I/We additionally authorize the Assignee to file patent applications in my/our name, or in its own name, for Letters Patent in any country (by international convention, treaty or otherwise), to be held and enjoyed by the Assignee, its successors and assigns, to the full end of the term or terms for which Letters Patent respectively may be granted, reissued, reexamined or extended, as fully and entirely as the same would have been held and enjoyed by me/us had this Assignment and transfer not been made.

I/We also appoint the Assignee as my/our common representative to represent me/us before all the competent national/regional/international authorities in connection with any and all national/regional/international applications.

I/We hereby authorize the Commissioner of Patents and Trademarks in Sweden and the empowered officials of all other governments and regional authorities (European Patent Office (EPO) and others) to issue or transfer all said Letters Patent to the Assignee in accordance herewith.

1(2)

I/We hereby covenant that I/we have the full right to convey the entire interests herein assigned, and that I/we have not executed and will not execute any agreement in conflict herewith and that such assigned rights are not encumbered by any grant, license or other right previously given.

I/We agree that each time a request is made, and without undue delay, I/we will execute and deliver all such papers as may be necessary or desirable to perfect the title in and to the invention(s), said application(s) and said Letters Patent, to the Assignee, its successors or assigns.

I/We agree, without undue delay, to undertake all reasonable acts to assure that said invention(s), patent application(s) and Letters Patent shall be held and enjoyed by the Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly: to execute and deliver to the Assignee all lawful documents including petitions, specifications, oaths, declarations, powers of attorney, assignments, invention disclaimers and lawful affidavits in form and substance which may be requested by the Assignee; to furnish the Assignee with all facts relating to said invention(s) or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be useful for establishing the facts of conception, disclosure and reduction to practice of said invention(s); and to testify in any proceedings relating to said invention(s), patent application(s) and Letters Patent. The Assignors thus undertake to sign all documents necessary for obtaining a patent and, moreover, all such documents, which may be required to assert the rights transferred hereby.

If the Assignors are prevented by any obstacles from signing said documents in person, this document of assignment shall be valid as a Power of Attorney for the Assignee to sign, these documents on behalf of the Assignors or, in the event of the death of the latter, the estate thereof.

I/We hereby sell, assign and transfer unto the Assignee the authority to revoke power(s) of attorney executed by me/us in connection with this application and to appoint a new power of attorney in place thereof.

ASSIGNOR	ASSIGNOR	
Place and date: <u>kandskrona 2017-11-</u> 07	Place and date:	2016-11-0
Signature: <u>Jeal Jahran</u>	Signature:	<u>z</u>
Name: Karl Ludvigsson	Name: Magnus/Persson	pojecom de
ASSIGNEE, hereby accepts the assignment of coatent application(s), and/or intellectual propagatent application(s) and/or intellectual propagatent AB	erty rights.	d/or
Place and date: 16 Mg/ M Land 15kg	**************************************	
By (signature):		
Name: 16443/620112000		
Position: RAD Manage /_		