

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4349052

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
IAN JAMES CASH	03/21/2017
RECEIVING PARTY DATA	
Name:	TRW LIMITED
Street Address:	STRATFORD ROAD
City:	SOLIHULL, WEST MIDLANDS
State/Country:	UNITED KINGDOM
Postal Code:	B90 4AX
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15510543
CORRESPONDENCE DATA	
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<i>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.</i>	
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ATTORNEY DOCKET NUMBER:	1-58798
NAME OF SUBMITTER:	DOUGLAS V. PAVELKO
SIGNATURE:	/Douglas V. Pavelko/
DATE SIGNED:	04/03/2017
Total Attachments: 2	
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ASSIGNMENT

FOR VALUE RECEIVED, I, Ian James Cash, a citizen of Great Britain, residing at Henbrook, 40 Mayfield Road, Ashbourne, Derbyshire, DE6 1AS Great Britain, does hereby sell, assign, transfer and convey unto TRW LIMITED, an English corporation organized under the laws of Great Britain, having an office at Stratford Road, Solihull West Midlands B90 4AX, Great Britain, its successors, assigns and legal representatives (hereinafter called the "Assignee"), my entire right, title and interest, for the United States and its territorial possessions, in and to certain inventions relating to MOTOR DRIVE CIRCUITRY, as described in U.S. Patent Application 15/510,543 filed March 10, 2017, which claims priority from PCT/GB2015/052604 filed September 9, 2015, which claims priority from GB 1416011.3 filed September 10, 2014 having Attorney Docket No. 1-58798, and in and to said application, any patent applications claiming priority to said application, and all divisions, renewals, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues and extensions thereof, and all other lawful forms of protection for said inventions in the United States and its territories.

AND I authorize and empower my attorneys at MacMillan, Sobanski & Todd, One Maritime Plaza, Fifth Floor, 720 Water Street, Toledo, Ohio 43604 USA, to complete the filing information above when it becomes known.

AND I authorize and empower the said Assignee or nominee to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, in the United States and its territories, the benefit of the right of priority provided by any international convention or agreement including, but not limited to, the Paris Convention for the Protection of Industrial Property, as amended, the Patent Cooperation Treaty, as amended, or by any convention which may henceforth be substituted therefor, and to invoke and claim such right of priority without further written or oral authorization from us.

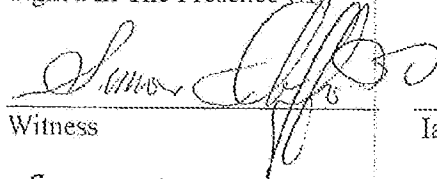
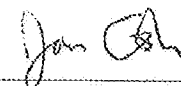
AND I hereby consent that a copy of this assignment shall be deemed a full and legal formal equivalent of any assignment, consent to file or like document which may be required in the United States for any purpose and more particularly in proof of the right of said Assignee or nominee to claim the aforesaid benefit of the right of priority provided by any international convention or agreement.

AND I hereby covenant that I have the full right to convey my entire right, title and interest herein assigned and that I have not executed and will not execute any agreement in conflict herewith.

AND I hereby covenant and agree that I will communicate to said Assignee or nominee all facts known to me pertaining to said inventions, and reasonably assist in all legal proceedings, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and declarations and in general perform all lawful acts necessary or proper to aid said Assignee or nominee in obtaining, maintaining and enforcing all lawful patent protection and any other lawful form of protection for said inventions in the United States and its territorial possessions.

IN WITNESS WHEREOF, I have hereunto set my hands.

Signed In The Presence Of:

Witness

Ian James Cash

21 / 3 / 2017
Date

SIMON CLIFFORD

DIRECTOR APPLIED RESEARCH

LABORATORIES LTD, RUGBY, VK.