

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ANDREW KIRBY	12/06/2018
GRAHAM E. MEAD	12/06/2018
RECEIVING PARTY DATA	
Name:	ILLINOIS TOOL WORKS INC.
Street Address:	155 HARLEM AVENUE
City:	GLENVIEW
State/Country:	ILLINOIS
Postal Code:	60025
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16057976
CORRESPONDENCE DATA	
Fax Number:	(937)443-6635
<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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Correspondent Name:	THOMPSON HINE LLP / MICHAEL J. NIEBERDING
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ATTORNEY DOCKET NUMBER:	490391-00101US/LD
NAME OF SUBMITTER:	MICHAEL J. NIEBERDING
SIGNATURE:	/Michael J. Nieberding/
DATE SIGNED:	01/28/2019
Total Attachments: 4	
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ASSIGNMENT

THIS ASSIGNMENT is made by and between

1) Andrew Kirby
39 Portway Drive, High Wycombe,
Buckinghamshire, HP12 4AT
United Kingdom

2) Graham Edward Mead
39 Clifden Road, Worminghall,
Buckinghamshire, HP18 9JR
United Kingdom

3)

4)

(hereinafter referred to as inventor(s)), and

ILLINOIS TOOL WORKS LTD having a place of business at
business at Nexus House, Station Road, Egham, Surrey, TW20 9LB, United Kingdom ("ITW LTD")

individually and collectively as Assignor(s), and

ILLINOIS TOOL WORKS INC., a corporation of the State of Delaware, U.S.A., having a place of business at 155 Harlem
Avenue, Glenview, Illinois 60025, USA ("ITW")

as Assignee.

WHEREAS, inventor(s) is (are) employed in a technical capacity by ITW LTD;

WHEREAS, ITW LTD is a division, subsidiary, business unit or other entity of ITW;

WHEREAS, inventor(s) has (have) made one or more inventions (as identified below) (hereinafter individually or
collectively referred to as "Invention"); and

WHEREAS, the parties hereto have at all times desired that ITW shall absolutely hold any and all rights (including, but
not limited to, Application rights, Patent Rights, Utility Patent rights, Plant Patent rights, Design Patent rights, Priority
rights) in the Invention in accordance with the assignment made herein.

NOW THEREFORE, for valuable and sufficient consideration from ITW to Assignor(s), receipt of such consideration
being hereby acknowledged and intending to be legally sufficient, I/we hereby sell, assign and convey unto Assignee, its
successors and assigns, my/our entire right, title and interest:

(1) in and to the Invention entitled "Braking System for Electromagnetic Motors" for which I/we have executed,
i) a GB Patent Application having GB Patent Application No. 1714884.2 was filed on 15th September 2017; and
ii) a European Patent Application having EP Patent Application No. 18184860.7 was filed on 20th July 2018; and
iii) a US Patent Application having US Patent Application No. 16/057,976 was filed on 8th August 2018; and
iv) Chinese Patent Application having CN Patent Application No. 201811003357.X was filed on 30th August 2018.

(2) in and to an Invention entitled "_____ " for which I/we previously filed
United States Provisional Application No(s). _____ on _____.

(3) in and to said PCT Patent Application, United States Patent Application, United States Provisional Application(s), and/or _____ Patent Application, and in and to all other patent applications now or hereafter filed in any country throughout the world claiming priority therefrom, as well as any divisional, continuation, reexamination and reissue applications, and legal equivalents thereof, based upon said forgoing Invention, and in and to any patent or patents granted thereon or issued therefrom, including reissues or the like thereof, if any, to the full end of the term or terms for which said patent or patents may be granted or issued, (if necessary for recordation purposes with any national or foreign patent office throughout the world, said other patent application(s) and/or patent(s) being specifically identified as follows)

Country	Application / Patent No.	Filing / Issue or Grant Date
Country	Application / Patent No.	Filing / Issue or Grant Date

; and

(4) in and to any and all priority rights, and any other application and patent rights in all of the above mentioned patent applications and patents.

I/we hereby authorize the Assignee and/or its agent or attorney to enter the Application No(s). and filing date(s) of the subject patent application(s) in the spaces provided above once received.

For the avoidance of any doubt, and without restricting the generality of this Assignment, it is confirmed by the Assignor(s) that the Assignee had the right to file the PCT Patent Application, United States Patent Application, United States Provisional Application(s), and/or GB Patent Application, European Patent Application, US Patent Application and Chinese Patent Application and shall have the right to file additional applications for protection of whatever form and in whichever countries it may choose to do so.

I/we agree that the PCT Patent Application, United States Patent Application, United States Provisional Application(s), and/or GB Patent Application, European Patent Application, US Patent Application and Chinese Patent Application and any patent applications of any countries which may be filed under any applicable international treaties and/or conventions based upon said Invention, shall be filed in the name of Assignee with the right to claim priority to the PCT Patent Application, United States Patent Application, United States Provisional Application(s), and/or GB Patent Application European Patent Application, US Patent Application and Chinese Patent Application based upon said Invention.

I/we further agree and authorize the Commissioner of Patents and Trademarks of the United States and all other appropriate government officials for applicable countries foreign to the United States to issue any and all above-identified patents to Assignee.

I/we hereby further agree that I/we shall, upon demand of Assignee, its successors or assigns, and without further consideration to me/us, execute any and all papers, make all rightful oaths and perform all acts that may be necessary, or deemed by Assignee, its successors or assigns, to be necessary, to be a complete fulfillment of the intent and purposes of this Assignment, it being understood that any expense incident to the execution of such papers and oaths, and performance of all applicable acts, shall be paid by Assignee, its successors and assigns, and not by me/us.

Any and all rights Assignee takes under this Assignment are freely assignable or otherwise transferable by Assignee without any restriction whatsoever.

I/we hereby confirm my/our assignment absolutely to Assignee of any and all rights whatsoever that I/we may have in the subject matter hereof to the full extent that I/we would have had, had this assignment not been made.

The consideration for the Assignment is in the premises above but in deference to those jurisdictions where a monetary consideration is required to effect an assignment, Assignee agrees to pay each of the Assignors the sum of \$1 (one U.S. dollar) or such other sufficient amount as agreed to by the parties, the receipt, adequacy and sufficiency of which the Assignor(s) acknowledge on signature hereto.

1) AKirby 6-12-18
Name: Andrew Kirby Date

2) G. E. Mead 6 Dec 18
Name: Graham Edward Mead Date

3) _____
Name: _____ Date

4) _____
Name: _____ Date

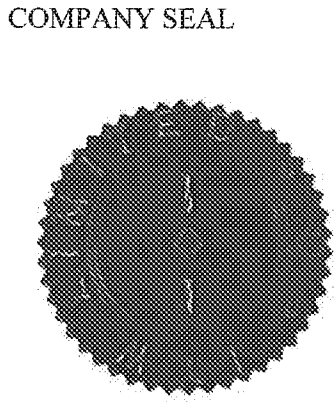
DECLARATION OF WITNESS

I, AUDREY BRIDGER-LINE whose post office address is 25 Lawrence Place Sheffield REG 9RS hereby declare that I was personally present and did see the above named inventor(s), personally known to me to be the person(s) named in this Assignment, duly sign and execute the same:

[Signature]
(Signature of Witness)

6-12-18
(Date of Signature)

For and on behalf of
ITW LIMITED
[Signature]
Name: GILES HUGHSON
Title: DIRECTOR
Date: 7 January 2019



For and on behalf of
ILLINOIS TOOL WORKS INC.
[Signature]
Name: Ernest W. Torain
Title: Deputy General Counsel & Assistant Secretary
Date: 1/9/19

COMPANY SEAL