

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4450036

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	NOTICE OF GRANT OF SECURITY INTEREST IN PATENTS

CONVEYING PARTY DATA

Name	Execution Date
MEANS INDUSTRIES, INC.	05/31/2017

RECEIVING PARTY DATA

Name:	BANK OF AMERICA, N.A., AS ADMINISTRATIVE AGENT
Street Address:	135 SOUTH LASALLE STREET
Internal Address:	MAIL CODE: IL4-135-09-61
City:	CHICAGO
State/Country:	ILLINOIS
Postal Code:	60603-4157

PROPERTY NUMBERS Total: 38

Property Type	Number
Patent Number:	9638266
Patent Number:	9562574
Patent Number:	9541143
Patent Number:	9541141
Patent Number:	9482297
Patent Number:	9482294
Patent Number:	9441708
Patent Number:	9435387
Patent Number:	9377061
Patent Number:	9371868
Patent Number:	9255614
Patent Number:	9249836
Patent Number:	9234552
Patent Number:	9188174
Patent Number:	9188172
Patent Number:	9186977
Patent Number:	9127724
Patent Number:	9121454
Application Number:	62506261

PATENT

Property Type	Number
Application Number:	62506243
Application Number:	15589474
Application Number:	62492569
Application Number:	62455147
Application Number:	62453578
Application Number:	15399900
Application Number:	62400724
Application Number:	15257992
Application Number:	15251346
Application Number:	62372867
Application Number:	15257116
Application Number:	15017936
Application Number:	15078171
Application Number:	14940226
Application Number:	14933345
Application Number:	14933360
Application Number:	14457245
Application Number:	14487322
Application Number:	14037430

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NAME OF SUBMITTER:	JOHN SLAUGHTER
SIGNATURE:	/john slaughter/
DATE SIGNED:	06/08/2017

Total Attachments: 7

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- source=NGSI-P - Means Industries to BoA#page5.tif
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NOTICE
OF
GRANT OF SECURITY INTEREST
IN
PATENTS

United States Patent and Trademark Office

Ladies and Gentlemen:

Please be advised that pursuant to the Fourth Amended and Restated Security and Pledge Agreement dated as of May 31, 2017 (as the same may be amended, modified, extended or restated from time to time, the "Agreement") by and among the Obligors party thereto (each an "Obligor" and collectively, the "Obligors") and Bank of America, N.A., as administrative agent (the "Administrative Agent") for the holders of the Obligations referenced therein, the undersigned Obligor has granted a continuing security interest in any and all right, title and interest of such Obligor in and to the patents and patent applications set forth on Schedule 1 hereto to the Administrative Agent for the ratable benefit of the holders of the Obligations.

The undersigned Obligor and the Administrative Agent, on behalf of the holders of the Obligations, hereby acknowledge and agree that the security interest in the foregoing patents and patent applications (i) may only be terminated in accordance with the terms of the Agreement and (ii) is not to be construed as an assignment of any patent or patent application.

[Signature Pages Follow]

Very truly yours,

MEANS INDUSTRIES, INC.,
a Michigan corporation

By: 

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Title: Attorney in Fact

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AMSTED INDUSTRIES INCORPORATED
NOTICE OF GRANT OF SECURITY INTERESTS IN PATENTS

PATENT
REEL: 042733 FRAME: 0800

Acknowledged and Accepted:

BANK OF AMERICA, N.A., as Administrative Agent

By: 

Name:

Denise Jones

Title:

Vice President

AMSTED INDUSTRIES INCORPORATED
NOTICE OF GRANT OF SECURITY INTERESTS IN PATENTS

PATENT

REEL: 042733 FRAME: 0801

Schedule 1

**Means Industries, Inc.
(Michigan Corporation)**

U.S. Patents

Issued Patents

Title	Patent No.	Issue Date
ELECTRONIC VEHICULAR TRANSMISSION INCLUDING A SENSOR AND COUPLING AND CONTROL ASSEMBLY FOR USE THEREIN	9638266	05/02/17
MAGNETIC SYSTEM FOR CONTROLLING THE OPERATING MODE OF AN OVERRUNNING COUPLING ASSEMBLY AND OVERRUNNING COUPLING AND MAGNETIC CONTROL ASSEMBLY HAVING SAME	9562574	02/07/17
MAGNETIC SYSTEM FOR CONTROLLING AN OPERATING MODE OF AN OVERRUNNING COUPLING ASSEMBLY AND OVERRUNNING COUPLING AND MAGNETIC CONTROL ASSEMBLY INCLUDING THE SYSTEM	9541143	01/10/17
ELECTRONIC VEHICULAR TRANSMISSION AND COUPLING AND CONTROL ASSEMBLY FOR USE IN THEREIN	9541141	01/10/17
CONTROLLABLE COUPLING ASSEMBLY HAVING FORWARD AND REVERSE BACKLASH	9482297	11/01/16
MAGNETIC SYSTEM FOR CONTROLLING THE OPERATING MODE OF AN OVERRUNNING COUPLING ASSEMBLY AND OVERRUNNING COUPLING AND MAGNETIC CONTROL ASSEMBLY HAVING SAME	9482294	11/01/16
HIGH-EFFICIENCY DRIVE SYSTEM INCLUDING A TRANSMISSION FOR A HYBRID ELECTRIC VEHICLE	9441708	09/13/16
DEVICE AND APPARATUS FOR CONTROLLING THE OPERATING MODE OF A COUPLING ASSEMBLY, COUPLING AND CONTROL ASSEMBLY AND ELECTRIC MOTOR DISCONNECT AND PASS THROUGH ASSEMBLIES	9435387	09/06/16
ELECTROMAGNETIC SYSTEM FOR CONTROLLING THE OPERATING MODE OF AN OVERRUNNING COUPLING ASSEMBLY AND OVERRUNNING COUPLING AND CONTROL ASSEMBLY INCLUDING THE SYSTEM	9377061	06/28/16
COUPLING MEMBER SUBASSEMBLY FOR USE IN CONTROLLABLE COUPLING ASSEMBLY AND ELECTROMECHANICAL APPARATUS HAVING A PAIR OF SIMULTANEOUSLY ACTUATED ELEMENTS FOR USE IN THE SUBASSEMBLY	9371868	06/21/16
ELECTROMECHANICAL ASSEMBLY TO CONTROL THE OPERATING MODE OF A COUPLING APPARATUS	9303699	04/05/16

ELECTRONIC VEHICULAR TRANSMISSION AND COUPLING AND CONTROL ASSEMBLY FOR USE THEREIN	9255614	02/09/16
COUPLING ASSEMBLY HAVING REDUCED UNDESIRABLE NOISE AND CONTACT STRESS CAUSED BY A TRANSITION BETWEEN OPERATING MODES OF THE ASSEMBLY	9249836	02/02/16
MAGNETIC SYSTEM FOR CONTROLLING THE OPERATING MODE OF AN OVERRUNNING COUPLING ASSEMBLY AND OVERRUNNING COUPLING AND MAGNETIC CONTROL ASSEMBLY HAVING SAME	9234552	01/12/16
CONTROLLABLE OR SELECTABLE COUPLING ASSEMBLY HAVING AN OVERRUN MODE AND A RETAINED CONTROL ELEMENT	9188174	11/17/15
COMPACT OVERRUNNING COUPLING AND CONTROL ASSEMBLY HAVING REDUCED PART COUNT AND MANUFACTURING	9188172	11/17/15
DRIVE SYSTEM INCLUDING A TRANSMISSION FOR A HYBRID ELECTRIC VEHICLE	9186977	11/17/15
ELECTROMECHANICAL APPARATUS FOR USE WITH A COUPLING ASSEMBLY INCLUDING SUCH APPARATUS	9127724	09/08/15
OVERRUNNING COUPLING AND CONTROL ASSEMBLY, COUPLING ASSEMBLY AND LOCKING MEMBER FOR USE THEREIN	9121454	09/01/15

Patent Applications

Title	Appl. No.	Filing Date
OVERRUNNING COUPLING AND CONTROL ASSEMBLY, COUPLING ASSEMBLY AND LOCKING MEMBER WHICH PIVOTALLY MOVES WITHOUT SUBSTANTIALLY ANY FRICTION	62506261	05/15/17
OVERRUNNING COUPLING AND CONTROL ASSEMBLY, COUPLING ASSEMBLY AND LOCKING MEMBER FOR USE THEREIN HAVING IMPROVED DYNAMICS WITH REGARDS TO LOCKING MEMBER LAYDOWN SPEED	62506243	05/15/17
ONE-WAY CLUTCH ASSEMBLY AND COUPLING MEMBER FOR THEREIN WHEREIN LOCKING MEMBER DYNAMICS WITH RESPECT TO STRUT LAYDOWN SPEED ARE ENHANCED	15589474	05/8/17
DRIVE SYSTEM INCLUDING A TRANSMISSION AND MAGNETIC COUPLING DEVICE FOR AN ELECTRIC VEHICLE	62492569	05/01/17
DRIVE SYSTEMS INCLUDING TRANSMISSIONS AND MAGNETIC COUPLING DEVICES FOR ELECTRIC AND HYBRID ELECTRIC VEHICLES	62455147	02/06/17
OVERRUNNING, NON-FRICTION COUPLING AND CONTROL ASSEMBLIES AND SWITCHABLE LINEAR	62453578	02/02/17

ACTUATOR DEVICE AND RECIPROCATING ELECTROMECHANICAL APPARATUS FOR USE THEREIN		
COUPLING ASSEMBLY HAVING AN OVERRUN MODE AND CHanneled LOCKING MEMBER FOR USE THEREIN	15399900	01/06/17
COUPLING ASSEMBLY HAVING AN OVERRUN MODE AND APPENDAGED LOCKING MEMBER FOR USE THEREIN	62400724	09/28/16
ELECTROMECHANICAL APPARATUS FOR USE WITH A CONTROLLABLE COUPLING ASSEMBLY AND COUPLING AND ELECTROMECHANICAL CONTROL ASSEMBLY	15257992	09/07/16
ELECTROMECHANICAL SYSTEM FOR CONTROLLING THE OPERATING MODE OF A SELECTABLE CLUTCH ASSEMBLY AND AN OVERRUNNING COUPLING AND ELECTROMECHANICAL CONTROL ASSEMBLY USING THE SYSTEM	15251346	08/30/16
COUPLING AND ELECTROMECHANICAL CONTROL ASSEMBLY AND ELECTROMECHANICAL SYSTEM FOR USE THEREIN	62372867	08/10/16
POWER TRANSMISSION APPARATUS	15257116 20170066317	09/06/16
ELECTROMECHANICAL APPARATUS FOR USE WITH A CONTROLLABLE COUPLING ASSEMBLY AND COUPLING AND ELECTROMECHANICAL CONTROL ASSEMBLY	15257992 20160377126	09/07/16
ELECTROMECHANICAL SYSTEM FOR CONTROLLING THE OPERATING MODE OF A SELECTABLE CLUTCH ASSEMBLY AND AN OVERRUNNING COUPLING AND ELECTROMECHANICAL CONTROL ASSEMBLY USING THE SYSTEM	15251346 20160369855	08/30/16
SELECTABLE ONE-WAY CLUTCH	15017936 20160230819	02/08/16
COUPLING AND CONTROL ASSEMBLY FOR USE IN AN ELECTRONIC VEHICULAR TRANSMISSION	15078171 20160201738	03/23/16
APPARATUS FOR CONTROLLABLY ACTUATING A SELECTABLE COUPLING ASSEMBLY HAVING MULTIPLE OPERATING MODES	14940226 20160131206	11/13/15
ELECTROMECHANICAL SYSTEM FOR CONTROLLING THE OPERATING MODE OF A SELECTABLE CLUTCH ASSEMBLY AND OVERRUNNING COUPLING AND ELECTROMECHANICAL CONTROL ASSEMBLY USING THE SYSTEM	14933345 20160131205	11/05/15
ACTUATOR CONTROLLER TO CONTROLLABLY SUPPLY DC POWER TO A BI-DIRECTIONAL ELECTROMECHANICAL ACTUATOR	14933360 20160129864	11/05/15
HIGH-SPEED COUPLING SUBASSEMBLY AND HIGH-SPEED OVERRUNNING CLUTCH ASSEMBLY INCLUDING THE SUBASSEMBLY	14457245 20150047942	08/12/14

ELECTRONIC, HIGH-EFFICIENCY VEHICULAR TRANSMISSION, OVERRUNNING, NON-FRICTION COUPLING AND CONTROL ASSEMBLY AND SWITCHABLE LINEAR ACTUATOR DEVICE FOR USE THEREIN	14487322 20150000442	09/16/14
VEHICLE DRIVE SYSTEM INCLUDING A TRANSMISSION	14037430 20140100071	09/26/13