

PATENT ASSIGNMENT

Electronic Version v1.1  
Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

Amendment To Security Interest

CONVEYING PARTY DATA

Name	Execution Date
Tenneco Inc.	04/29/2010
Tenneco Automotive Operating Company Inc.	04/29/2010
Tenneco International Holding Corp.	04/29/2010
Tenneco Global Holdings Inc.	04/29/2010
The Pullman Company	04/29/2010
TMC Texas Inc.	04/29/2010
Clevite Industries Inc.	04/29/2010

RECEIVING PARTY DATA

Name:	U.S. Bank National Association (as successor to Wachovia Bank, National Association)
Street Address:	5555 San Felipe Street, Suite 1150
City:	Houston
State/Country:	TEXAS
Postal Code:	77056

PROPERTY NUMBERS Total: 30

Property Type	Number
Patent Number:	7624956
Patent Number:	7584944
Patent Number:	7644911
Patent Number:	7522988
Patent Number:	7562750
Patent Number:	7550048
Patent Number:	7637486
Patent Number:	7637513
Patent Number:	7686309
Application Number:	12424915

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PATENT  
REEL: 024312 FRAME: 0373

OP \$1200.00 7624956

Application Number:	12424783
Application Number:	12386449
Application Number:	12386627
Application Number:	12430194
Application Number:	12470560
Application Number:	12496964
Application Number:	12547582
Application Number:	61276645
Application Number:	12567311
Application Number:	12573911
Application Number:	12616568
Application Number:	12619792
Application Number:	12619817
Application Number:	12620302
Application Number:	12620618
Application Number:	12631479
Application Number:	12698488
Application Number:	61303146
Application Number:	61305272
Application Number:	12712395

#### CORRESPONDENCE DATA

Fax Number: (312)706-8248  
*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*  
 Phone: 3127018601  
 Email: zbeal@mayerbrown.com, ipdocket@mayerbrown.com,  
 druff@mayerbrown.com  
 Correspondent Name: Deborah Schavey Ruff  
 Address Line 1: P. O. Box 2828  
 Address Line 4: Chicago, ILLINOIS 606902828

ATTORNEY DOCKET NUMBER:	00638420 DSR
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NAME OF SUBMITTER:	Deborah Schavey Ruff
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#### Total Attachments: 6

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**PATENT**  
**REEL: 024312 FRAME: 0374**

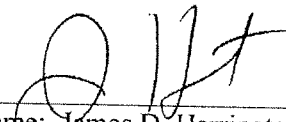


**AMENDMENT TO SECURITY INTEREST  
IN UNITED STATES PATENTS**


FOR GOOD AND VALUABLE CONSIDERATION, receipt and sufficiency of which are hereby acknowledged, Tenneco Inc., Tenneco Automotive Operating Company Inc., Tenneco International Holding Corp., Tenneco Global Holdings Inc., The Pullman Company, TMC Texas Inc. and Clevite Industries Inc., each a Delaware corporation (each, a "Grantor" and collectively, the "Grantors") with principal offices at 500 North Field Drive, Lake Forest, Illinois 60045 and U.S. Bank National Association (as successor to Wachovia Bank, National Association), as Collateral Agent, with principal offices at 5555 San Felipe Street, Suite 1150, Houston, Texas 77056 (the "Collateral Agent"), hereby agree to amend Schedule A to the Security Interest in United States Patents executed by Grantors and Collateral Agent on June 19, 2003 and recorded at the U.S. Patent and Trademark Office ("Security Interest"). Schedule A was previously amended and restated in its entirety pursuant to the Amendment to Security Interest in United States Patents executed by Grantors and Collateral Agent in April 2005 and recorded at the U.S. Patent and Trademark Office and further amended by the Amendment to Security Interest in United States Patents executed by Grantors and Collateral Agent in April of 2006, 2007, 2008 and 2009 and recorded at the U.S. Patent and Trademark Office. Schedule A to the Security Interest, as supplemented by Schedules B through E to the Security Interest, shall be further amended to include Schedule F attached hereto.

IN WITNESS WHEREOF, the undersigned have executed this Agreement as of the 29<sup>th</sup>  
day of April 2010.

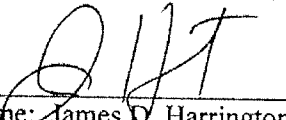
Tenneco Inc.

By:   
Name: James D. Harrington  
Title: Senior Vice President, General Counsel  
and Corporate Secretary

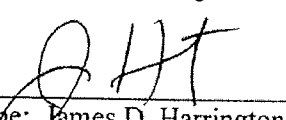
Tenneco Automotive Operating Company Inc.

By:   
Name: James D. Harrington  
Title: Senior Vice President, General Counsel  
and Corporate Secretary

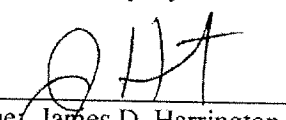
Tenneco International Holding Corp.

By:   
Name: James D. Harrington  
Title: Senior Vice President, General Counsel  
and Corporate Secretary

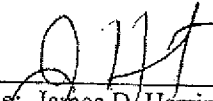
Tenneco Global Holdings Inc.

By:   
Name: James D. Harrington  
Title: Senior Vice President, General Counsel  
and Corporate Secretary

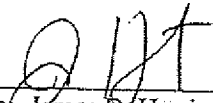
The Pullman Company

By:   
Name: James D. Harrington  
Title: Senior Vice President, General Counsel  
and Corporate Secretary

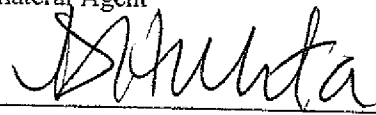
TMC Texas Inc.

By:   
Name: James D. Harrington  
Title: Senior Vice President, General Counsel  
and Corporate Secretary

Clevite Industries Inc.

By:   
Name: James D. Harrington  
Title: Senior Vice President, General Counsel  
and Corporate Secretary

U.S. Bank National Association,  
as Collateral Agent

By:   
Name:  
Title: **DYAN M. HUHTA**  
**VICE PRESIDENT**

**SCHEDULE F**  
**[Attached]**

1508546 00638420

Schedule F-1

**PATENT**  
**REEL: 024312 FRAME: 0379**

1) UNITED STATES PENDING PATENT APPLICATIONS

SHORT TITLE	STATUS	APP. DATE	APP. NO.	GUARANTORS
SNAP ACTION VALVE WITH BUMPER PAD	Pending	16-Apr-09	12/424,915	Tenneco Automotive Operating Company
METHOD OF INSTALLING SNAP ACTION VALVE IN A CONDUIT	Pending	16-Apr-09	12/424,783	Tenneco Automotive Operating Company
TAILPIPE COOLING DEVICE	Pending	17-Apr-09	12/386,449	Tenneco Automotive Operating Company
MIXING ELEMENT WITH SEVERAL ALTERNATELY ARRANGED WINGS, CONSISTING OF TWO EQUAL PARTIAL ELEMENTS	Pending	21-Apr-09	12/386,627	Heinrich Gillet GmbH
TWO STEP MIXER	Pending	21-Apr-09	12/386,627	Heinrich Gillet GmbH
DIESEL AFTERTREATMENT SYSTEM CONFIGURATIONS	Pending	27-Apr-09	12/430,194	Tenneco Automotive Operating Company
SNAP ACTION VALVE WITH INERTIAL DAMPER	Pending	22-May-09	12/470,560	Tenneco Automotive Operating Company
HIGH VELOCITY DAMPING VALVE	Pending	2-Jul-09	12/496,964	Tenneco Automotive Operating Company
INVERTED STRUT COMPRISING AND AIR DAMPER COMBINED WITH A HYDRAULIC STOP	Pending	26-Aug-09	12/547,582	Tenneco Automotive Operating Company
THREE ZONE BURNER FOR DPF REGENERATION	Pending	15-Sep-09	61/276,645	Tenneco Automotive Operating Company
FLAED SIPHON TUBE	Pending	25-Sep-09	12/567,311	Tenneco Automotive Operating Company
DAMPER WITH DIGITAL VALVE	Pending	6-Oct-09	12/573,911	Tenneco Automotive Operating Company
IMD OR GBD CONTROL FOR MULTI-LAYER MAT WRAP	Pending	11-Nov-09	12/616,568	Tenneco Automotive Operating Company
VEHICLE STABILIZER ASSEMBLY WITH ELASTOMER ARTICULATION (HEAVY TRUCK SWAY BAR)	Pending	17-Nov-09	12/619,792	The Pullman Company
CONFINED HD BUSHING FOR HIGH LOAD APPLICATIONS	Pending	17-Nov-09	12/619,817	The Pullman Company
BUTTERFLY MIXER	Pending	17-Nov-09	12/620,302	Tenneco Automotive Operating Company
VELOCITY PROGRESSIVE VALVING	Pending	18-Nov-09	12/620,618	Tenneco Automotive Operating Company
ELIM-NOx INJECTOR FIRING CONTROL CIRCUIT CONCEPTS	Pending	4-Dec-09	12/631,479	Tenneco Automotive Operating Company
CALCINATION OF SILICA FIBER INSULATION MATERIALS PRIOR TO INSTALLATION IN APPLICATION	Pending	29-Jan-10	12/631,479	Tenneco Automotive Operating Company
INJECTOR MOUNTING SYSTEM	Pending	2-Feb-10	12/698,488	Tenneco Automotive Operating Company
INJECTOR SYSTEM	Provisional	10-Feb-10	61/303,146	Tenneco Automotive Operating Company
ON VEHICLE NOx AFTERTREATMENT SYSTE	Pending	17-Feb-10	61/305,272	Tenneco Automotive Operating Company
SNAPPER VALVE FOR HOT END SYSTEMS WITH BURNERS	Pending	25-Feb-10	12/712,395	Tenneco Automotive Operating Company



2) UNITED STATES ISSUED PATENTS

TITLE	PATENT NO.	ISSUE DATE	GRANTOR
BRACKET FOR FITTING EXHAUST MANIFOLD TO ENGINE BLOCK HAS A TWO PART CONSTRUCTION WITH SLOTTED HOLES AND ANGLED SECTIONS FOR INCREASED ADJUSTMENT	7,624,956	01.Dec.2009	Heinrich Gillet GmbH
HYDRAULICALLY DAMPED BODY MOUNT WITH BOLT-THROUGH CONSTRUCTION	7,584,944	08.Sep.2009	The Pullman Company
ISOLATOR	7,644,911	12.Jan.2010	The Pullman Company
METHOD FOR MONITORING FUNCTIONAL COMPONENTS OF A MOTOR VEHICLE	7,522,988	21.Apr.2009	Heinrich Gillet GmbH
AIR PRESSURE PROPORTIONAL DAMPER FOR SHOCK ABSORBER	7,562,750	21.Jul.2009	Tenneco Automotive Operating Company Inc.
METHOD OF MANUFACTURE USING HEAT FORMING	7,550,048	23.Jun.2009	Tenneco Automotive Operating Company Inc.
VERY HIGH DAMPING BODY MOUNT	7,637,486	29.Dec.2009	The Pullman Company
VEHICLE SUSPENSION SYSTEM	7,637,513	29.Dec.2009	Kinetic Pty. Ltd.
HYDRAULIC VEHICLE SUSPENSION SYSTEM	7,686,309	30.Mar.2010	Kinetic Pty. Ltd.

PATENT

RECORDED: 04/29/2010

REEL: 024312 FRAME: 0381