

# PATENT ASSIGNMENT

Electronic Version v1.1  
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SUBMISSION TYPE:	NEW ASSIGNMENT														
NATURE OF CONVEYANCE:	ASSIGNMENT														
<b>CONVEYING PARTY DATA</b>															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Scott M. Martin</td> <td>01/20/2009</td> </tr> <tr> <td>Stephen M. Thomas</td> <td>01/20/2009</td> </tr> <tr> <td>Alison A. Chambers</td> <td>01/20/2009</td> </tr> <tr> <td>Theodore J. Tarabulski</td> <td>01/08/2009</td> </tr> <tr> <td>P. Robert Santangeli</td> <td>03/13/2009</td> </tr> <tr> <td>R. Gifford Broderick</td> <td>01/09/2009</td> </tr> </tbody> </table>		Name	Execution Date	Scott M. Martin	01/20/2009	Stephen M. Thomas	01/20/2009	Alison A. Chambers	01/20/2009	Theodore J. Tarabulski	01/08/2009	P. Robert Santangeli	03/13/2009	R. Gifford Broderick	01/09/2009
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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Tenneco Automotive Operating Company Inc.</td> </tr> <tr> <td>Street Address:</td> <td>500 North Field Drive</td> </tr> <tr> <td>City:</td> <td>Lake Forest</td> </tr> <tr> <td>State/Country:</td> <td>ILLINOIS</td> </tr> <tr> <td>Postal Code:</td> <td>60045</td> </tr> </table>		Name:	Tenneco Automotive Operating Company Inc.	Street Address:	500 North Field Drive	City:	Lake Forest	State/Country:	ILLINOIS	Postal Code:	60045				
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<b>CORRESPONDENCE DATA</b>															
<p>Fax Number: (248)641-0270  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: (248) 641-1600        Email: sgarbari@hdp.com        Correspondent Name: Harness Dickey &amp; Pierce, PLC        Address Line 1: P.O. Box 828        Address Line 4: Bloomfield Hills, MICHIGAN 48303</p>															
ATTORNEY DOCKET NUMBER:	1316E-000003/CPD														
NAME OF SUBMITTER:	Stanley M. Erjavac														

CH \$40.00 12275539

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**PATENT**  
**REEL: 022505 FRAME: 0570**

**Total Attachments: 6**

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# ASSIGNMENT

Atty. Docket No. 1316E-00003/US/CPD

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

## METHOD AND APPARATUS FOR INJECTING ATOMIZED FLUIDS

for which Assignor is about to make or has made United States or International application for patent

- (a) ☐ executed on even date preparatory to filing (each inventor should sign this Assignment on the same day as he/she signs the Declaration and Power of Attorney);
- (b) ☐ executed on \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_; or
- (c) ☒ filed on November 21, 2008, and assigned Serial No. 12/275,539 or PCT International Application No. \_\_\_\_\_; and

WHEREAS, Tenneco Automotive Operating Company Inc., 500 North Field Drive, Lake Forest, Illinois 60045, hereinafter referred to as Assignee, is desirous of acquiring all right, title, and interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy whereof is hereby acknowledged, Assignor agrees to, and hereby does, sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and throughout the world, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the invention as described in the aforesaid application and all United States Letters Patent which may be granted therefore, and all divisions, continuations, reissues, reexaminations and extensions thereof, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to sue for, and recover for past infringements of, or liabilities for, any of the rights relating to any of the applications or patents resulting therefrom;

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

Assignor hereby covenants that no assignment, sale, license, agreement or encumbrance has been or will be entered into which would conflict with this Assignment; and

Assignor hereby requests the United States Patent and Trademark Office to issue the Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue the Letters Patent, Utility Model Registration or Inventor's Certificate to Assignee.

The undersigned hereby grant(s) the law firm of Harness, Dickey & Pierce, P.L.C. the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

ASSIGNMENT

Scott M. Martin  
SCOTT M. MARTIN

State of MICHIGAN )  
County of JACKSON ) ss.

On this 20<sup>th</sup> day of JANUARY, 2009, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Notary Public,

Acting in the County Of

State Of

My Commission Expires

(seal)

Stephen M. Thomas  
STEPHEN M. THOMAS

PATRICIA S. SIMPSON  
NOTARY PUBLIC, Jackson County, MI  
My Commission Expires Mar. 28, 2011  
Acting in Jackson County

State of MICHIGAN )  
County of JACKSON ) ss.

On this 20<sup>th</sup> day of JANUARY, 2009, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Notary Public,

Acting in the County Of

State Of

My Commission Expires

(seal)

PATRICIA S. SIMPSON  
NOTARY PUBLIC, Jackson County, MI  
My Commission Expires Mar. 28, 2011  
Acting in Jackson County

ASSIGNMENT

Alison A. Chambers  
ALISON A. CHAMBERS

State of MICHIGAN )  
County of JACKSON ) ss.

On this 20<sup>th</sup> day of January, 2009, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Notary Public,

(seal)

Acting in the County Of Jackson

State Of Michigan

My Commission Expires March 28, 2011

\_\_\_\_\_  
THEODORE J. TARABULSKI

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.

PATRICIA S. SIMPSON  
NOTARY PUBLIC, Jackson County, MI  
My Commission Expires Mar. 28, 2011  
Acting in Jackson County

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Notary Public,

(seal)

Acting in the County Of

State Of

My Commission Expires

# ASSIGNMENT

ALISON A. CHAMBERS

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.


Notary Public,

Acting in the County Of

State Of

My Commission Expires

(seal)

  
THEODORE J. TARABULSKI

State of ILLINOIS )  
County of PEORIA ) ss.

On this 8 day of January, 2009 before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.



Notary Public, Christine M. Stowell

Acting in the County Of PEORIA

State Of ILLINOIS

My Commission Expires 04 / 11 / 2009

## ASSIGNMENT

P. Robert Santangeli  
P. ROBERT SANTANGELI

State of Connecticut )  
County of Fairfield ) ss.

On this 13<sup>th</sup> day of March, 2009, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Notary Public, Lynn A. Cookfair

Acting in the County Of Fairfield

State Of Connecticut

My Commission Expires

**LYNN A. COOKFAIR**  
**NOTARY PUBLIC**  
MY COMMISSION EXPIRES NOV. 30, 2012

R. GIFFORD BRODERICK

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Notary Public,

Acting in the County Of

State Of

My Commission Expires

## ASSIGNMENT

\_\_\_\_\_  
P. ROBERT SANTANGELI

State of \_\_\_\_\_ )  
County of \_\_\_\_\_ ) ss.

On this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Notary Public,

(seal)

Acting in the County Of

State Of

My Commission Expires

  
\_\_\_\_\_  
R. GIFFORD BRODERICK

State of Connecticut )  
County of FAIRFIELD ) ss. MOURCE

On this 9th day of January, 2009, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Notary Public,



(seal)

Acting in the County Of FAIRFIELD

State Of CT

My Commission Expires

**MARIE E. RAITHEL**  
**NOTARY PUBLIC**  
**STATE OF CONNECTICUT**  
MY COMMISSION EXPIRES JULY 31, 2012