

## PATENT ASSIGNMENT

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 Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT												
NATURE OF CONVEYANCE:	Corrective Assignment to correct the names of the Assignees and Assignor and correct typographical error in name of Assignee previously recorded on Reel 028906 Frame 0795. Assignor(s) hereby confirms the assignment of interest to Assignee.												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Gunter Palmer</td> <td>08/24/2012</td> </tr> <tr> <td>Daniel R. Tomczak</td> <td>08/30/2012</td> </tr> <tr> <td>Tobias Hoffel</td> <td>08/27/2012</td> </tr> <tr> <td>Judith Schwobel</td> <td>08/23/2012</td> </tr> <tr> <td>Manoj K. Sampath</td> <td>08/30/2012</td> </tr> </tbody> </table>		Name	Execution Date	Gunter Palmer	08/24/2012	Daniel R. Tomczak	08/30/2012	Tobias Hoffel	08/27/2012	Judith Schwobel	08/23/2012	Manoj K. Sampath	08/30/2012
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RECEIVING PARTY DATA													
<table border="1"> <tr> <td>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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CORRESPONDENCE DATA													
<p>Fax Number: 2486410270  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>          Email: jgrazia@hdp.com          Correspondent Name: Harness Dickey &amp; Pierce PLC          Address Line 1: P.O. Box 828          Address Line 4: Bloomfield Hills, MICHIGAN 48083</p>													
ATTORNEY DOCKET NUMBER:	2001U-001714/US												
NAME OF SUBMITTER:	Donald G. Walker												

CH \$40.00 13571542

Signature:	/Donald G. Walker/
Date:	05/09/2013
Total Attachments: 5 source=Original cover sheet#page1.tif source=Original cover sheet#page2.tif source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif	



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### PATENT ASSIGNMENT

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Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
<b>CONVEYING PARTY DATA</b>											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Tenneco Automotive Operating Company, Inc.</td> <td>08/10/2012</td> </tr> </tbody> </table>		Name	Execution Date	Tenneco Automotive Operating Company, Inc.	08/10/2012						
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<table border="1"> <tr> <td>Name:</td> <td>Gunter Palmer</td> </tr> <tr> <td>Street Address:</td> <td>Lincolnstr. 4c</td> </tr> <tr> <td>City:</td> <td>Neustadt</td> </tr> <tr> <td>State/Country:</td> <td>GERMANY</td> </tr> <tr> <td>Postal Code:</td> <td>67434</td> </tr> </table>		Name:	Gunter Palmer	Street Address:	Lincolnstr. 4c	City:	Neustadt	State/Country:	GERMANY	Postal Code:	67434
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<table border="1"> <tr> <td>Name:</td> <td>Daniel R. Tomczak</td> </tr> <tr> <td>Street Address:</td> <td>7224 Richmond Drive</td> </tr> <tr> <td>City:</td> <td>Ypsilanti</td> </tr> <tr> <td>State/Country:</td> <td>MICHIGAN</td> </tr> <tr> <td>Postal Code:</td> <td>48197</td> </tr> </table>		Name:	Daniel R. Tomczak	Street Address:	7224 Richmond Drive	City:	Ypsilanti	State/Country:	MICHIGAN	Postal Code:	48197
Name:	Daniel R. Tomczak										
Street Address:	7224 Richmond Drive										
City:	Ypsilanti										
State/Country:	MICHIGAN										
Postal Code:	48197										
<table border="1"> <tr> <td>Name:</td> <td>Tobias Hoffel</td> </tr> <tr> <td>Street Address:</td> <td>Bahnhofstrasse 38</td> </tr> <tr> <td>City:</td> <td>Maikammer</td> </tr> <tr> <td>State/Country:</td> <td>GERMANY</td> </tr> <tr> <td>Postal Code:</td> <td>67487</td> </tr> </table>		Name:	Tobias Hoffel	Street Address:	Bahnhofstrasse 38	City:	Maikammer	State/Country:	GERMANY	Postal Code:	67487
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Street Address:	Bahnhofstrasse 38										
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<table border="1"> <tr> <td>Name:</td> <td>Judith Schwobel</td> </tr> <tr> <td>Street Address:</td> <td>Finkenstrasse 18</td> </tr> <tr> <td>City:</td> <td>Landau</td> </tr> <tr> <td>State/Country:</td> <td>GERMANY</td> </tr> <tr> <td>Postal Code:</td> <td>76829</td> </tr> </table>		Name:	Judith Schwobel	Street Address:	Finkenstrasse 18	City:	Landau	State/Country:	GERMANY	Postal Code:	76829
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Street Address:	Finkenstrasse 18										
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State/Country:	GERMANY										
Postal Code:	76829										

<b>Name:</b>	Manoj K. Sampath	
<b>Street Address:</b>	2663 Aspen Ridge Drive	
<b>City:</b>	Ann Arbor	
<b>State/Country:</b>	MICHIGAN	
<b>Postal Code:</b>	48103	

**PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	13571542

**CORRESPONDENCE DATA**

Fax Number: 2486410270  
 Phone: 248-641-1600  
 Email: docsettings@hdp.com  
*Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.*  
 Correspondent Name: HARNESSEY, DICKEY & PIERCE, P.L.L.C.  
 Address Line 1: P.O. BOX 928  
 Address Line 4: BLOOMFIELD HILLS, MICHIGAN 48303

<b>ATTORNEY DOCKET NUMBER:</b>	2001U-001714/US
<b>NAME OF SUBMITTER:</b>	Donald G. Walker
<b>Signature:</b>	/Donald G. Walker/
<b>Date:</b>	09/06/2012

**Total Attachments: 3**  
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**RECEIPT INFORMATION**

EPAS ID: PAT2088067  
 Receipt Date: 09/06/2012  
 Fee Amount: \$40

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## ASSIGNMENT

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

### METHOD FOR MIXING AN EXHAUST GAS FLOW

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);
- (b)  executed on \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_; or
- (c)  filed on August 10, 2012, and assigned Serial No. 13/571,542 or PCT International Application No. \_\_\_\_\_; and

WHEREAS, Tenneco Automotive Operating Company Inc., 500 North Field Drive, Lake Forest, IL 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 hereby confirms any prior assignment to Assignee, and to the extent that Assignor has not already done so, agrees to assign, 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 inventions as described in the aforesaid application, to the aforesaid application itself, and all divisions, continuations, continuations-in-part, or other applications claiming priority directly or indirectly from the aforesaid application, and any United States or foreign Letters Patent, utility model, or other similar rights which may be granted thereon, including reissues, reexaminations and extensions thereof, and all copyright rights throughout the world in the aforesaid application and the subject matter disclosed therein, these rights, title and interest to be held and enjoyed by Assignee to the full end of the term for which the Letters Patent, utility model, or other similar rights, 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, patents, utility models, or other similar rights, resulting therefrom, and the copyright rights;

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, utility model, or other similar rights, and for copyright, 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 other similar right 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**

*Günter Palmer*  
Günter Palmer

24.8.2012  
Dated

Daniel R. Tomczak

Dated

*Tobias Höffel*  
Tobias Höffel

27.8.2012  
Dated

*Judith Schwöbel*  
Judith Schwöbel

23. August 2012  
Dated

Manoj K. Sampath

Dated

*Mr. Bischer*  
Witness

*Mr. Bischer*  
Witness

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*Mr. Bischer*  
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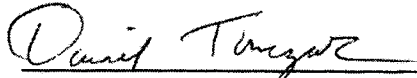
# ASSIGNMENT


\_\_\_\_\_  
Günter Palmer

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\_\_\_\_\_  
Daniel R. Tomczak

  
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30 Aug 2012  
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Tobias Höffel

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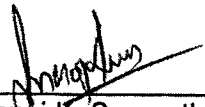
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Judith Schwöbel

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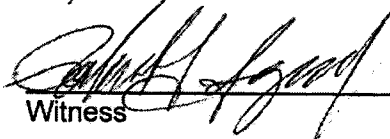
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Manoj K. Sampath

  
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08/30/2012  
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