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FORM PTO-1595

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U.S. Department of Commerce
Patent and Trademark Office

OUR FILE TRW(TE)7327

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies)/Execution Dates:

Carl A. Munch and Michael C. McCarthy

Execution Date(s): February 9, 2005 and February 9, 2005Additional name(s) of conveying party(ies) attached ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other: _____

2. Name and address of receiving party(ies):

Name: TRW Automotive U.S. LLC

Internal Address: _____

Street Address: 12001 Tech Center DriveCity: Livonia State: MI Zip: 48150Additional name(s) and address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is February 9, 2005

A. Patent Application No.(s):

filed
11/056583

B. Patent No.(s):

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: Barry L. TumminoInternal Address: Tarolli, Sundheim, Covell,
& Tummino L.L.P.Street Address: 526 Superior Avenue, Suite 1111City: Cleveland State: OH Zip: 44114-1400Phone Number: (216) 621-2234Fax Number: (216) 621-4072Email Address: BTummino@tarolli.com6. Total number of applications and patents involved: 17. Total fee (37 1.21(h) & 3.41).....\$40.00

- ☒ Enclosed is a check for the amount indicated above.
☐ Authorized to be charged to deposit account.
☐ Authorized to be charged by credit card
☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card: Last 4 Numbers

Expiration Date: _____

Authorized User: _____

b. Deposit Account No.: 20-0090(charge for insufficient fees only)

(Attach duplicate copy of this page if paying by deposit account)

9. Signature:

Barry L. TumminoName of Person Signing
Reg. No. 29,709

Signature

Barry L. Tummino

Date

February 11, 2005Total number of pages including cover sheet, attachments, and document: 3Mail Documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington D.C. 20231

02/16/2005 HNGUYEN1 00000016 11056583

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PATENT
REEL: 016282 FRAME: 0874

ASSIGNMENT

WHEREAS, we, Carl A. Munch and Michael C. McCarthy, of Troy, County of Oakland, and State of Michigan; and of Birmingham, County of Oakland, and State of Michigan respectively, have made new and useful improvements in **SENSOR ASSEMBLY INCLUDING A SENSING CHANNEL HAVING A VOID AND AN ASSOCIATED METHOD**;

WHEREAS, TRW Automotive U.S. LLC, a limited liability company duly organized and existing under the laws of the State of Delaware, having a place of business at Livonia, County of Wayne, State of Michigan, is desirous of acquiring the entire right, title and interest in and to the said improvements and all patents therefor to be obtained in the United States of America and countries foreign to the United States;

NOW THEREFORE, BE IT KNOWN that for valuable considerations to us paid, the receipt whereof is hereby acknowledged, we, the said Carl A. Munch and Michael C. McCarthy do hereby assign, sell and set over unto the said TRW Automotive U.S. LLC its successors or assigns, the entire right, title and interest in and to the said improvements and any and all inventions pertaining thereto, the application for United States patent executed by us respectively on the 9th day of February, 2005, and the 9th day of February, 2005, all patents therefor in the United States of America and elsewhere, and the right to apply for patents therefor in all countries foreign to the United States and to claim for such applications the priority of United States applications, and we hereby request the Commissioner of Patents of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue patents, to issue such patents to the said TRW Automotive U.S. LLC its successors or assigns; and we further agree to execute such other applications and other instruments and do all other acts as may be deemed necessary by the said TRW Automotive U.S. LLC its successors or assigns in order to fully secure, protect and preserve its rights to the said improvements and to obtain patents therefor in the United States of America and all countries foreign to the United States, all without further consideration but at the expense of the said TRW Automotive U.S. LLC its successors or assigns.

Signed at FARMINGTON HILLS
County of OAKLAND and State of MICHIGAN
This 9th day of February, 2005

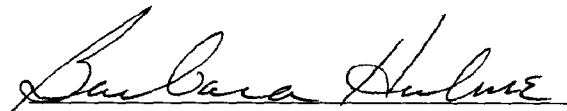


Carl A. Munch

STATE OF Michigan)
COUNTY OF Oakland)

On this 9th day of Feb, 2005
Personally appeared before me Carl A. Munch to me known to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and the purposes therein mentioned.

BARBARA HULME
NOTARY PUBLIC OAKLAND CO., MI
MY COMMISSION EXPIRES Feb. 6, 2006



Notary Public

Signed at Farmington Hills
County of Oakland and State of Michigan
This 9th day of February, 2005

Michael C. McCarthy
Michael C. McCarthy

STATE OF Michigan)
COUNTY OF Oakland)

On this 9th day of Feb, 2005.

Personally appeared before me Michael C. McCarthy to me known to be the person named in and who executed the above instrument, and acknowledged to me that he executed the same for the uses and the purposes therein mentioned.

Barbara Hulme
Notary Public

BARBARA HULME
NOTARY PUBLIC OAKLAND CO., MI
MY COMMISSION EXPIRES Feb. 6, 2006