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FORM PTO-1595

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U.S. Department of Commerce
Patent and Trademark Office

OUR FILE TRW(EPS)5918

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:

Kevin M. McLaughlin and Joseph D. Miller

Execution Date(s): December 2, 2004Additional 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 December 2, 2004

A Patent Application No.(s): _____

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: www.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

Date

Total number of pages including cover sheet, attachments, and document: 3

Mail Documents to be recorded with required cover sheet information to:

Commissioner of Patents & Trademarks, Box Assignments
Washington D.C. 2023112/13/2004 HMARZ11 00000042 200090 11007520
01 FC:8021 40.00 OFPATENT
REEL: 016071 FRAME: 0282

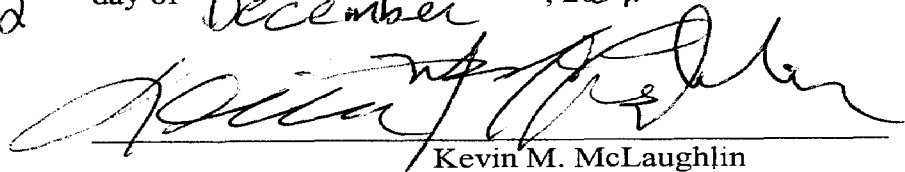
ASSIGNMENT

WHEREAS, we, Kevin M. McLaughlin and Joseph D. Miller, of Troy, County of Oakland, and State of Michigan; and of Farmington Hills, County of Oakland, and State of Michigan, respectively, have made new and useful improvements in **METHOD AND APPARATUS FOR DETERMINING FAULTS IN AN ELECTRIC ASSIST STEERING SYSTEM**;

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 and 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 Kevin M. McLaughlin and Joseph D. Miller, 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 2nd day of December 2004, and the 2nd day of December 2004, 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.

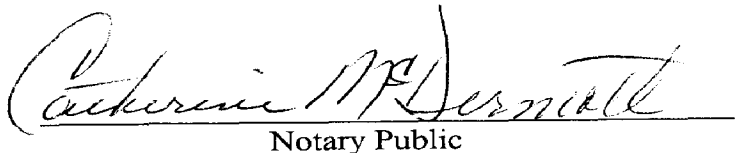
Signed at TRW Federal Credit Union
County of _____ and State of Michigan
This Macomb 2nd day of December, 2004.


Kevin M. McLaughlin

STATE OF Michigan
COUNTY OF Macomb

CATHERINE McDERMOTT
Notary Public, Macomb County, MI
My Commission Expires Dec. 28, 2005

On this 2nd day of December, 2004.
Personally appeared before me Kevin M. McLaughlin 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.


Notary Public

Signed at TRW Federal Credit Union
County of MACOMB and State of MI
This 2nd day of December, 2004

Joseph D. Miller
Joseph D. Miller

STATE OF MICHIGAN
COUNTY OF MACOMB

) CATHERINE McDERMOTT
) Notary Public, Macomb County, MI
) My Commission Expires Dec. 28, 2005

On this 2nd day of December, 2004.

Personally appeared before me Joseph D. Miller 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.

Catherine McDermott
Notary Public