

FORM PTO-1595

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06-12-1998



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2 SHEET

U.S. Department of Commerce  
Patent and Trademark Office

OUR FILE TRW(M)3879

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

1. Name of conveying party(ies): *MC 6-9-98*  
Engelbert Lu and Kevin M. McLaughlin

Additional name(s) of conveying party(ies) attached ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: June 2, 1998

2. Name and address of receiving party(ies)

Name: TRW Inc.

Internal Address: \_\_\_\_\_

Street Address: 1900 Richmond RoadCity: Lyndhurst State: OH Zip: 44124Additional 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 \_\_\_\_\_

A. Patent Application No.(s)

B. Patent No.(s)

Serial No. 09/044,979, filed March 20, 1998

Additional numbers attached? ☐ Yes ☒ No5. Name and address of party to whom  
correspondence concerning document  
should be mailed:Name: Barry L. TumminoInternal Address: Tarolli, Sundheim, Covell,Tummino & Szabo1111 Leader BuildingStreet Address: 526 Superior AvenueCity: Cleveland State: Ohio Zip: 44114-14006. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41).....\$40.00☒ Enclosed☐ Authorized to be charged to deposit account.

8. Deposit Account No.

20-0090

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

DO NOT USE SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document

Barry L. Tummino

Name of Person Signing

Reg. No. 29,709

*Barry L. Tummino*  
SignatureJune 4, 1998  
Date

06/11/1998 SSMITH

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

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40.00 UP

Mail Documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington D.C. 20231PATENT  
REEL: 9226 FRAME: 0379


## ASSIGNMENT

WHEREAS, we, Engelbert Lu and Kevin M. McLaughlin, of Ann Arbor, County of Washtenaw, and State of Michigan; of Troy, County of Oakland, and State of Michigan, respectively, have made new and useful improvements in **AN ELECTRIC ASSIST STEERING SYSTEM HAVING AN IMPROVED MOTOR CURRENT CONTROLLER WITH NOTCH FILTER**; for which application for Letters Patent of the United States has been filed on March 20, 1998 under Serial No. 09/044,979

WHEREAS, TRW Inc., a corporation duly organized and existing under the laws of the State of Ohio, having a place of business at Lyndhurst, County of Cuyahoga, State of Ohio, 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 Engelbert Lu and Kevin M. McLaughlin, do hereby assign, sell and set over unto the said TRW Inc. its successors or assigns, the entire right, title and interest in and to the said improvements and any and all inventions pertaining thereto, said application Serial No. 09/044,979, for the United States patent, all patents granted 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 Inc. 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 Inc. 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 Inc. its successors or assigns.

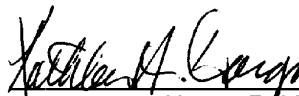
Signed at Sterling Heights, TRW  
County of Macomb and State of Michigan  
This day of June 2, 19 98



Engelbert Lu

STATE OF Michigan )  
COUNTY OF Macomb ) SS:

On this 2nd day of June, 19 98  
Personally appeared before me Engelbert Lu to be 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

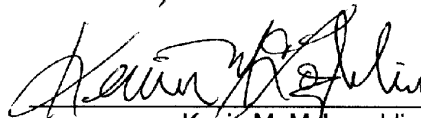
KATHLEEN A. DARGA

Notary Public, Macomb County, MI  
My Commission Expires Aug. 4, 2000

PATENT

REEL: 9226 FRAME: 0380

Signed at Sterling Heights  
County of Macomb and State of Michigan  
This 2 day of June, 1998

  
Kevin M. McLaughlin

STATE OF Michigan )  
COUNTY OF Macomb ) SS:

On this 2nd day of June, 1998.  
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  
KATHLEEN A. DARGA  
Notary Public, Macomb County, MI  
My Commission Expires Aug. 4, 2000