

03-14-2003



SHEET

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

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

1. Name of conveying party(ies):
Hemant M. Sardar

3-11-03

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

Name: **TRW Automotive U.S. LLC**

Internal Address:

Street Address: **12025 Tech Center Drive**

City: **Livonia** State: **MI** ZIP: **48150**

Additional names(s) of conveying party(ies) Yes No

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other

Execution Date: **February 25, 2003**

Additional name(s) & address(es) attached? Yes No

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

~~SN 10/338,354 filed
January 8, 2003~~

Additional numbers attached? Yes No

FINANCE SECTION
MAR 11 AM 7:07

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

Name: **Douglas V. Pavelko, Reg. No. 36,888**

Internal Address:

03/13/2003 6TON11 00000103 110417 10338354

Q1 FC:8021 40.00 CH

Street Address: **One Maritime Plaza, 4th Floor**

720 Water Street

City: **Toledo** State: **OH** ZIP: **43604**

6. Total number of applications and patents involved: **1**

7. Total fee (37 CFR 3.41):.....\$ **40.00**

Enclosed - Any excess or insufficiency should be credited or debited to deposit account

Authorized to be charged to deposit account

8. Deposit account number:

11-0417

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

DO NOT USE THIS 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.

Douglas V. Pavelko

March 4, 2003

Name of Person Signing

Signature

Date

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

ASSIGNMENT

WHEREAS, I, HEMANT M. SARDAR, of Farmington Hills, Michigan U.S.A., have invented an improvement in a

DYNAMIC TUNING OF CURRENT LOOP CONTROLLER FOR A PERMANENT MAGNET BRUSHLESS MOTOR,

as described in an application for a United States Patent filed January 8, 2003, as Ser. No. 10/338,354; and

WHEREAS, TRW AUTOMOTIVE U.S. LLC, a corporation of Delaware, is desirous of acquiring certain rights thereunder;

NOW, THEREFORE, for valuable consideration, receipt of which is hereby acknowledged, I have agreed to and do hereby sell, assign, and transfer unto said corporation my entire right, title, and interest in and throughout the United States of America (including its territories and dependencies) and all countries foreign thereto, in and to said invention, said application and any and all patents (including extensions thereof) of any country, which have been or may be granted on said invention or any part thereof, or on said application or any divisional, continuing, renewal, reissue, or other patent application, based in whole or in part thereon, or based upon said invention.

TO BE HELD AND ENJOYED by said corporation, its successors and assigns, to the full ends of the respective terms for which said patents or any of them have been or may be granted, as fully and entirely as the same would have been held and enjoyed by myself had no sale and assignment of said interest been made.

AND I hereby covenant and agree for myself, my heirs, and my legal representatives, to assist said corporation in the prosecution of said application and in any interference which may arise involving said invention, and upon request, to execute without further consideration all necessary and desirable divisional, continuing, renewal, reissue, or other applications for patents in any country, that might be deemed necessary by said assignee fully to secure to said assignee its interest as aforesaid in and to said invention or any part thereof, and in and to said several patents or any of them.

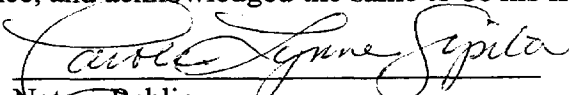
AND I do hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America to issue any and all United States patents which may be granted upon said United States applications or any of them, or upon said invention or any part thereof, to said corporation.

IN WITNESS WHEREOF, I, HEMANT M. SARDAR, have hereunto set my hand and affixed my seal this 25th day of February, 2003.


HEMANT M. SARDAR

STATE OF Michigan
COUNTY OF Macomb ss:

On this 25th day of February, 2003, before me, a Notary Public, personally appeared the above named HEMANT M. SARDAR, personally known to me and known by me to the one who executed the foregoing instrument and subscribed the same in my presence, and acknowledged the same to be his free act and deed.


Notary Public

CAROLE LYNNE SIPILA
NOTARY PUBLIC MACOMB CO., MI
MY COMMISSION EXPIRES Jan 13, 2007

Seal