

FORM PTO-1505 (Modified)
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02-04-2000

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office



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To the Honorable Commissioner of Patents a

ved original documents or copy thereof.

1. Name of conveying party(ies):
Carl Randall Vogt, Richard K. Rader, James David Warren

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

Name: Borg-Warner Automotive, Inc.

Internal Address: _____

Street Address: 3001 West Big Beaver Road, Suite 200

City: Troy State: MI ZIP: 48007

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

3. Nature of conveyance:

- Assignment Merger
- Security Agreement Change of Name
- Other _____

Execution Date: 1/5/2000; 11/3/1999; 12/16/1999

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

4. Application number(s) or registration 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)

09/420,366

Additional numbers attached? Yes No

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

Name: Greg Dziegielewski, Esq.

Internal Address: Borg-Warner Automotive, Inc.

Street Address: 3001 West Big Beaver Road

City: Troy State: MI ZIP: 48007

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:

02-3182

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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.

David D. Murray

David D. Murray Jan 6, 2000

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: **7**

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ASSIGNMENT

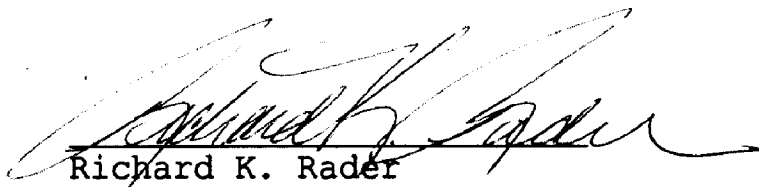
WHEREAS, we, Carl Randall Vogt, of Raleigh, in the County of Wake, and the State of North Carolina; and Richard K. Rader, of Laguna Hills, in the County of Orange, and the State of California; and James David Warren, of Clayton, in the County of Johnston, and the State of North Carolina, have jointly invented certain new and useful improvements in an INTEGRATED SHIFT MOTOR AND ELECTRONIC CONTROLLER identified as Borg-Warner Case No. DKT98050 and described in a patent application executed by us on the 5th day of January, 2000; the 3rd day of November, 1999; and the 16th day of December, 1999, respectively, and filed with the United States Patent and Trademark Office on October 18, 1999, Serial No. 09/420,366 preparatory to obtaining Letters Patent of the United States therefor; and

WHEREAS, BORG-WARNER AUTOMOTIVE, INC., a corporation duly organized and existing under and by virtue of the laws of the State of Delaware, and having a place of business at 3001 West Big Beaver Road, Suite 200, Troy, Michigan 48007-5060, hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to said invention or inventions, and in, to and under Letters Patent therefor in the United States and all other countries.

NOW, THEREFORE, BE IT KNOWN THAT, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we have sold, assigned, transferred and set over and by these presents do hereby sell, assign, transfer and set over to and unto said ASSIGNEE, its successors and assigns, the entire right, title and interest in and to said invention or inventions, and in, to and under the above identified application and all other applications for Letters Patent of the United States and for patents, utility models and other industrial property in all other countries for the above entitled invention or inventions, including any and all priority rights or dates pursuant to the provisions of any International Convention for the protection of industrial property; and in, to and under all Letters Patent that may be issued for said invention or inventions in the United States and all other countries, and in, to and under all divisions, reissues, continuations and extensions thereof, and covenant that we have the full right so to do; and we hereby authorize and request the Commissioner of Patents to issue all United States Letters Patent on the invention or inventions included herein to said ASSIGNEE, as assignee of the entire interest, and we authorize said ASSIGNEE to file applications for patents, utility models and other industrial property based on said invention or inventions in ASSIGNEE's name and to claim the above identified priority rights or dates.

We further agree that we will communicate to said ASSIGNEE or its representatives or agents all facts and information known or available to us respecting said invention or inventions, including evidence for interference purposes or for other legal proceedings, whenever requested; testify in any interference or other legal proceedings; execute and deliver, on request, all lawful papers including original, divisional, continuing and reissue applications, renewals, assignments, power of attorney, oaths, affidavits, depositions, etc., and generally do everything possible to aid said ASSIGNEE, its successors and assigns, but at the expense of ASSIGNEE, in obtaining and enforcing proper protection for said invention or inventions, in the United States and all other countries.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 22 day of November, 1999.


Richard K. Rader

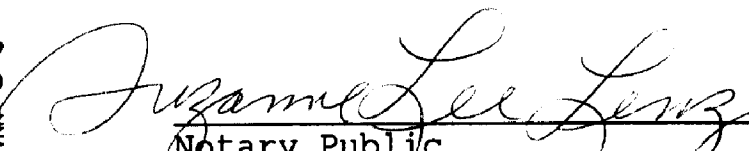
STATE OF CALIFORNIA)
) --SS:
COUNTY OF ORANGE)

I, the undersigned, a Notary Public in and for the State and County aforesaid, do hereby certify that Richard K. Rader, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he signed, sealed and delivered the same instrument as his free and voluntary act, for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and notarial seal this 22nd day of Nov., 1999.



SEAL


Notary Public
My commission expires Dec 13, 2002

