

Attorney Docket No. DKT 03175A
(BWI-00098)Form PTO-1595
(Rev. 10/02)RECORDATION FORM COVER SHEET
PATENTS ONLYU.S. DEPARTMENT OF COMMERCE
U.S. Patent and Trademark Office

OMB No. 0651-0027 (exp. 6/30/2005)

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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):

1. Kenneth W. Morgan; 2. Thomas J. Hemak;
3. Aaron Wolfson; 4. Thomas A. Horn;
5. Gregory S. Lewis 6. Howard SaxonAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____1. February 1, 2005; 2. February 1, 2005;
3. February 7, 2005; 4. February 1, 2005;

Execution Date: 5. February 1, 2005; 6. February 15, 2005

2. Name and address of receiving party(ies)

Name: BorgWarner Inc.

Internal Address: _____

Street Address: 3800 Automation Avenue
Suite 100City: Auburn Hills State: MI Zip: 48326Additional name(s) & 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) 10/989,616

B. Patent No.(s) _____

Additional numbers attached? ☐ Yes ☒ No

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

Name: Patent Docket Administrator - BorgWarner Inc.

Internal Address: _____

Street Address: Powertrain Technical Center
3800 Automation Avenue - Suite 100City: Auburn Hills State: MI Zip: 483266. 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 number:

501612

DO NOT USE THIS SPACE

9. Signature.

Philip R. Warn

Name of Person Signing



Signature

February 16, 2005

Date

Total number of pages including cover sheet, attachments, and documents: ☐Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

CH \$40.00 501612 10989616

700154697

PATENT
REEL: 015723 FRAME: 0303

Attorney Docket No. DKT 03175A
(BWI-00098)

ASSIGNMENT BY JOINT INVENTORS

WHEREAS, the undersigned, hereinafter referred to as Assignors, have invented certain new and useful improvements in

PULSE WIDTH MODULATED SOLENOID

for which Assignors have made United States application for patent, under Serial No. 10/989,616, filed November 16, 2004, and

WHEREAS, BorgWarner Inc., a Delaware corporation, having a place of business at 3800 Automation Avenue - Suite 100, Auburn Hills, MI 48326, hereinafter referred to as Assignee, is desirous of acquiring an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt whereof is hereby acknowledged, Assignors by these presents do sell, assign and transfer unto Assignee, its successors in interest, the full and exclusive right in the United States of America and all foreign countries, including the right to claim priority under the laws of the United States and the Paris Convention, to the said invention as described in the aforesaid application, said application for patent and all Letters Patent therefore to be held and enjoyed by Assignee to the full end of the term for which said Letters Patent are granted and any extensions thereof, as fully and entirely as the same would have been held by Assignors had this assignment and sale not been made; and Assignors hereby covenant and agree to execute all instruments or documents required or requested for the making and prosecution of applications for patent in the United States and in all foreign countries, for litigation regarding, or for the purpose of protecting title to the said invention, the United States application for patent, or Letters Patent therefor for the benefit of Assignee without further or other compensation than that above set forth; and Assignors hereby request the Commissioner of Patents and Trademarks to issue said Letters Patent to Assignee.

Kenneth W. Morgan 2/1/05
Name: Kenneth W. Morgan
(First Joint Inventor)

State of MICHIGAN)
County of OAKLAND) ss.

PATRICIA M. OXLEY
NOTARY PUBLIC, STATE OF MI
COUNTY OF GENESEE
MY COMMISSION EXPIRES Mar 25, 2011
ACTING IN COUNTY OF Oakland

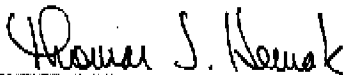
On this 1st day of FEBRUARY, 2005, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he executed the same of his own free will for the purpose therein set forth.

(seal)

Patricia M. Oxley
Notary Public,
Oakland County, State of Michigan

My Commission Expires: 3-25-11

ASSIGNMENT BY JOINT INVENTORS



Name: Thomas J. Hemak
(Second Joint Inventor)


State of Michigan)
County of Oakland) ss.

PATRICIA M. OXLEY
NOTARY PUBLIC, STATE OF MI
COUNTY OF GENESEE
MY COMMISSION EXPIRES Mar 25, 2011
ACTING IN COUNTY OF Oakland

On this 1st day of February, 2005, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he executed the same of his own free will for the purpose therein set forth.

(seal):


Notary Public,
Oakland County, State of Michigan
My Commission Expires: 3-25-11



Name: Aaron Wolfson
(Third Joint Inventor)

State of Michigan)
County of Oakland) ss.


PATRICIA M. OXLEY
NOTARY PUBLIC, STATE OF MI
COUNTY OF GENESEE
MY COMMISSION EXPIRES Mar 25, 2011
ACTING IN COUNTY OF Oakland

On this 7th day of FEBRUARY, 2005, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he executed the same of his own free will for the purpose therein set forth.

(seal):


Notary Public,
Oakland County, State of Michigan
My Commission Expires: 3-25-11

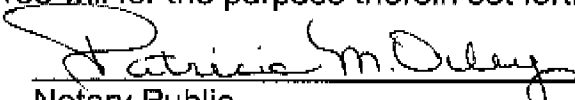
ASSIGNMENT BY JOINT INVENTORS

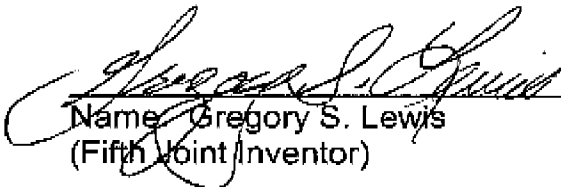

Name: Thomas A. Horn
(Fourth Joint Inventor)

State of Michigan)
County of Macomb) ss.

PATRICIA M. OXLEY
NOTARY PUBLIC, STATE OF MI
COUNTY OF GENESEE
MY COMMISSION EXPIRES Mar 25, 2011
ACTING IN COUNTY OF Oakland

On this 1ST day of February, 2005, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he executed the same of his own free will for the purpose therein set forth.

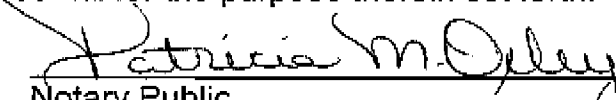
(seal) 
Notary Public,
Oakland County, State of Michigan
My Commission Expires: 3-25-11

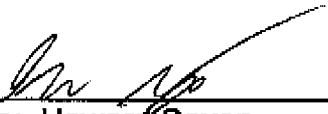

Name: Gregory S. Lewis
(Fifth Joint Inventor)

State of Michigan)
County of Oakland) ss.

PATRICIA M. OXLEY
NOTARY PUBLIC, STATE OF MI
COUNTY OF GENESEE
MY COMMISSION EXPIRES Mar 25, 2011
ACTING IN COUNTY OF Oakland

On this 1st day of February, 2005, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he executed the same of his own free will for the purpose therein set forth.

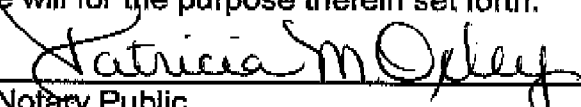
(seal) 
Notary Public,
Oakland County, State of Michigan
My Commission Expires: 3-25-11


Name: Howard Saxon
(Sixth Joint Inventor)

State of Michigan)
County of Oakland) ss.

On this 15th day of February, 2005, before me personally appeared the foregoing individual, who executed the foregoing instrument and who acknowledged to me that he executed the same of his own free will for the purpose therein set forth.

(seal)


Notary Public,
Oakland County, State of Michigan
My Commission Expires: 3-25-11

PATRICIA M. OXLEY
NOTARY PUBLIC, STATE OF MI
COUNTY OF GENESEE
MY COMMISSION EXPIRES Mar 25, 2011
ACTING IN COUNTY OF Oakland