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S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

FORM PTO-1595

1-31-92

RECO



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To the Honorable Commissioner of Patents and Trademarks. Please return original documents or copy thereof.

1. Name of Conveying Party(ies): ALL INDIVIDUALS

Ralph E. Harris

8510 Queen Heights

San Antonio, Texas 78254

Citizenship: United States of America

Additional name(s) of conveying party(ies) attached?

☒ Yes ☐ No

2. Name and Address of receiving Party(ies):

Name: Southwest Research Institute

Internal Address:

P. O. Drawer 28510

San Antonio, Texas 78228-0510

Street Address: 6220 Culebra Road

City: San Antonio

State: Texas

Zip: 78238-5100

Additional name(s) & address(es) attached?

☐ Yes☒ No

3. Nature of conveyance:

☒

Assignment

☐

Merger

☐

Security Agreement

☐

Change of Name

☐

Other

Execution Date: 1st Inventor: November 26, 2003

2nd Inventor: November 21, 2003; 3rd Inventor: Nov. 17, 2003

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)

Serial No. 10/663,630 filed September 16, 2003

B. Patent No.(s)

Additional Number(s) attached?

☐ Yes☒ No

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

Name:

Ann C. Livingston

Internal Address:

Baker Botts L.L.P.

Street Address:

1500 San Jacinto Center

98 San Jacinto Blvd.

Austin, Texas 78701

City: Austin

State: Texas

Zip: 78701-4039

6. Total number of applications and patents involved: One

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

☒

Enclosed

☐

Authorized to be charged to deposit account

8. Deposit account number:

No. 50-2148 of Baker Botts L.L.P.

(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.

Ann C. Livingston

Name of Person Signing

Signature

January 20, 2004

Date

Total number of pages including cover sheet

5

OMB No. 0651-0011 (exp. 4/94)

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Mail documents to be recorded with required cover sheet information:

Mail Stop Assignment Recordation Services

Commissioner for Patents

P. O. Box 1450

Alexandria, VA 22313-1450

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PATENT
REEL: 014925 FRAME: 0115

Recordation Form Cover Sheet - Form PTO-1595 (01/31/92)

Patents Only

Page 2

Attorney's Docket: 090936.0530 (SwRI I.D. 3028)

Section 1 - Names of conveying parties

Additional names (individual)

Gary D. Bourn

8418 Timber Coach

San Antonio, Texas 78250

Citizenship: United States of America

Anthony J. Smalley

11919 Pepperidge Cove

San Antonio, Texas 78213

Citizenship: United States of America

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UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of
Ralph E. Harris, et al

Serial No.: 10/663,630

Filed: September 16, 2003

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Action: Assignment

Title: **Internal Combustion Engine Cylinder-to-Cylinder
Balancing with Balanced Air-Fuel Ratios**

TO: **Commissioner of Patents
and Trademarks
Washington, D. C. 20231**

WHEREAS, we, Ralph E. Harris, a citizen of the United States, residing at 8510 Queen Heights, San Antonio, Texas, Gary D. Bourn, a citizen of the United States, residing at 8418 Timber Coach, San Antonio, Texas, and Anthony J. Smalley, a citizen of the United States, residing at 11919 Pepperidge Cove, San Antonio, Texas, are joint inventors of new and useful improvements in **Internal Combustion Engine Cylinder-to-Cylinder Balancing with Balanced Air-Fuel Ratios** for which we have executed an application for Letters Patent which was filed on September 16, 2003; and WHEREAS, we represent that we are joint owners of said invention and application for Letters Patent; and,

WHEREAS, SOUTHWEST RESEARCH INSTITUTE, hereinafter called "ASSIGNEE," a Texas Corporation having its principal office at 6220 Culebra Road, San Antonio, Bexar County, Texas, is desirous of acquiring our right, title, and interest in and to the said application and the invention therein described and claimed and any Letters Patent that may be issued upon said application or for the invention therein contained;

NOW, THEREFORE, for and in consideration of the sum of Sixty-Five Dollars (\$65.00) lawful money of the United States, and other valuable consideration, to us in hand paid, the receipt and sufficiency whereof we hereby acknowledge, we, the said Ralph E. Harris, Gary D. Bourn and Anthony J. Smalley, hereinafter called "ASSIGNORS" have sold, assigned and transferred, and do hereby sell, assign and transfer unto the said ASSIGNEE, its successors and assigns, our entire right, title and interest in and to (a) said invention and worldwide rights therein, including the right to claim the priority date of said application and all other rights arising under the International

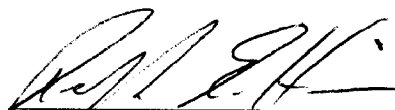
Convention for the Protection of Industrial Property; (b) said application, including all divisions, continuations, continuations-in-part and substitutions thereof; and (c) all United States and foreign patents which shall issue on said invention, including all reissues, renewals, divisions and extensions thereof, for the United States, its territories and possessions and all foreign countries, including the right to file applications for Letters Patent on said invention in any and all foreign countries, the same to be held and enjoyed by said ASSIGNEE, its assigns and successors, as fully and entirely as the same would have been held and enjoyed by us, had this Assignment and sale not been made.

We request that any and all such Letters Patent for said invention be issued to ASSIGNEE, its successors, assigns and legal representatives, or to such nominees as it may designate.

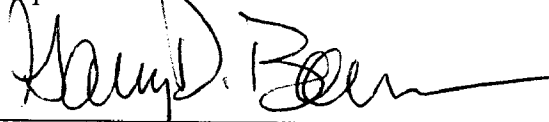
We covenant and agree that we and our executors or administrators will, at any time upon the request and at the expense of said ASSIGNEE, execute and deliver any and all papers and to perform all lawful acts that may be necessary or desirable, in the opinion of said ASSIGNEE, to enable and assist said ASSIGNEE to (a) obtain Letters Patent, both domestic and foreign, on said invention; (b) establish, maintain and secure title in said ASSIGNEE, its successors and assigns, to said invention, application and Letters Patent, including making such title of lawful and public record; and (c) defend, establish or otherwise preserve the validity of said Letters Patent against any and all infringers, and perform such other acts as are necessary to give full force and effect to this Assignment.

ASSIGNORS further covenant with ASSIGNEE that the rights and property herein conveyed are free and clear of any encumbrances, and that ASSIGNORS have the full right to convey the same as herein expressed.

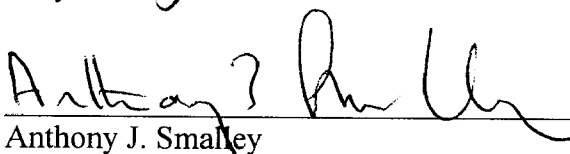
IN TESTIMONY WHEREOF, we have fully executed this Assignment this 26 day of November, 2003.



Ralph E. Harris



Gary D. Bourn



Anthony J. Smalley

STATE OF TEXAS §
 §
COUNTY OF BEXAR §

BEFORE ME, the undersigned authority, on this day personally appeared Ralph E. Harris, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN under my hand and seal of office this 26th day of November, 2003.

Shirley E. McDonald
Notary Public, State of Texas

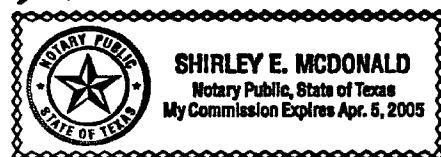


STATE OF TEXAS §
 §
COUNTY OF BEXAR §

BEFORE ME, the undersigned authority, on this day personally appeared Gary D. Bourn, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN under my hand and seal of office this 21st day of November, 2003.

Shirley E. McDonald
Notary Public, State of Texas



STATE OF TEXAS §
 §
COUNTY OF BEXAR §

BEFORE ME, the undersigned authority, on this day personally appeared Anthony J. Smalley, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN under my hand and seal of office this 17th day of November, 2003.

Shirley E. McDonald
Notary Public, State of Texas

