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08-23-2002

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U.S. Department of Commerce
Patent and Trademark Office

OUR FILE TRW(V)6106

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To the Honorable Commissioner of Patents and Trademarks.

ne attached original documents or copy thereof.

1. Name of conveying party(ies):

Frank J. Savel, Jr.
Robert C. McLaren
Doug Mellema

08/19/02

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

3. Nature of conveyance:

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

Execution Date: August 13, 2002

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 ☐ NoJ1046 U.S. PTO
10/22/02
06/19/02

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 August 13, 2002

A. Patent Application No.(s)

10/223182

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☐ No

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

Name: THOMAS L. TAROLLI, ESQ.Internal Address: Tarolli, Sundheim, Covell,Tummino & Szabo L.L.P.1111 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

THOMAS L. TAROLLI
Name of Person Signing
Reg. No. 20,177

Signature

8-19-02
DateTotal number of pages including cover sheet, attachments, and document: 3Mail Documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington D.C. 20231

08/21/2002 WABDELRI 00000034 10223182

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PATENT
REEL: 013206 FRAME: 0846

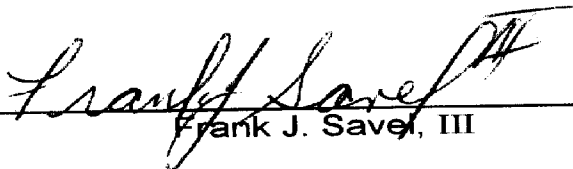
ASSIGNMENT

WHEREAS, we, Frank J. Savel, III, Robert C. McLaren, and Doug Mellema, of Chardon, County of Geauga, and State of Ohio; of Willoughby Hills, County of Lake, and State of Ohio; and of Painesville, County of Lake, and State of Ohio respectively, have made new and useful improvements in **CHROME PLATED ENGINE VALVE**;

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 Frank J. Savel, III, Robert C. McLaren, and Doug Mellema 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, the application for United States patent executed by us respectively on the 13th day of August 20 02, 13th day of August 20 02, and the 13th day of August 20 02, all patents 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 Cleveland
County of Cuyahoga and State of Ohio
This 13th day of August, 20 02



Frank J. Savel, III

STATE OF)
COUNTY OF) SS:

On this 13th day of August, 20 02
Personally appeared before me Frank J. Savel, III 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
CHERYL A. LAW
Notary Public, State of Ohio
My Commission Expires June 14, 2003
(Recorded in Lake County)

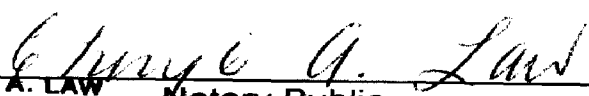
Signed at Cleveland
County of Cuyahoga
This 13th

and State of Ohio
day of August, 2002.


Robert C. McLaren

STATE OF)
COUNTY OF) SS:

On this 13th day of August, 2002.
Personally appeared before me Robert C. McLaren 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.



CHERYL A. LAW Notary Public
Notary Public, State of Ohio
My Commission Expires June 14, 2003
(Recorded in Lake County)

Signed at Cleveland
County of Cuyahoga
This 13th day of August, 2002.


Doug Mellema

STATE OF)
COUNTY OF) SS:

On this 13th day of August, 2002.
Personally appeared before me Doug Mellema 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
CHERYL A. LAW
Notary Public, State of Ohio
My Commission Expires June 14, 2003
(Recorded in Lake County)