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FORM PTL 1595

(Rev. 6-93)

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

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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):

Michael G. Mangum

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

3. Nature of conveyance:

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

Execution Date: November 28, 2000

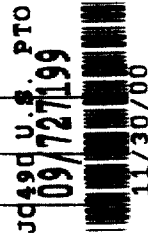
2. Name and address of receiving party(ies)

Name: TRW Inc.

Internal Address: _____

Street Address: 1900 Richmond Road

City: Lyndhurst State: OH Zip: 44124

Additional name(s) and 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 November 28, 2000

A. Patent Application No.(s)

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 Building

Street Address: 526 Superior Avenue

City: Cleveland State: Ohio Zip: 44114-1400

6. Total number of applications and patents involved

1

7. 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)

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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

RICHARD A. SUTKUS

Name of Person Signing

Reg. No. 43,941

Signature

11-30-00

Date

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

Mail Documents to be recorded with required cover sheet information to:
 Commissioner of Patents & Trademarks, Box Assignments
 Washington D.C. 20231

12/06/2000 ETULU1 00000013 09727199

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PATENT
 REEL: 011322 FRAME: 0549

ASSIGNMENT

WHEREAS, we, Michael G. Mangum, Peter J. Astrauskas, and David D. Ryder, of Mesa, County of Maricopa, and State of Arizona; of Mesa, County of Maricopa, and State of Arizona; of Sparks, County of Washoe, and State of Nevada; respectively, have made new and useful improvements in **BINDER FOR A GAS GENERATING MATERIAL**;

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 Michael G. Mangum, Peter J. Astrauskas, and David D. Ryder 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 28 day of November, 2000, and the _____ day of _____, 20____, 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 Phoenix
County of Maricopa and State of Arizona
This 28th day of November, 2000.

Michael G. Mangum
Michael G. Mangum

STATE OF Arizona)
COUNTY OF Maricopa) SS:

On this 28 day of November, 2000
Personally appeared before me Michael G. Mangum 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.



Trina J. Rand
Notary Public

Signed at
County of
This

day of and State of , 20 .

Peter J. Astrauskas

STATE OF)
COUNTY OF) SS:

On this day of , 20 .
Personally appeared before me Peter J. Astrauskas 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

Signed at
County of
This

day of and State of , 20 .

David D. Ryder

STATE OF)
COUNTY OF) SS:

On this day of , 20 .
Personally appeared before me David D. Ryder 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