



100927799

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To the Honorable Commissioner c

Attached original documents or copy thereof.

1. Name of conveying party(ies):

Bryan W. Shirk, Ahmad K. Al-Amin, Timothy A. Swann, Roy D. Van Wynsberghe, Jess A. Cuevas, Thomas H. Deming

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

MKS 12-1-98

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) & address(es) attached? Yes No

JC540 U.S. PTO
09/20/05
12701798

3. Nature of conveyance:

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

Execution Date: 11-13/18-98

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: 11-13/18-98

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:

2/11/1998 TRODE1 0000050 0320495
Thomas L. Tarolli, Esq.

FC:5A1 Internal Address: 40.00 OP

Street Address: 526 Superior Ave.
1111 Leader Building
City: Cleveland State: OH ZIP: 44114

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 number:

(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.

Thomas L. Tarolli

Name of Person Signing

Signature

12-1-98

Date

Reg. No. 20,177

Total number of pages including cover sheet, attachments, and document: 5

Mail documents to be recorded with required coversheet information to:
Commissioner of Patents & Trademarks, Box Assignments


ASSIGNMENT

WHEREAS, we, Bryan W. Shirk, Ahmad K. Al-Amin, Timothy A. Swann, Roy D. Van Wynsberghe, Jess A. Cuevas, and Thomas H. Deming, of Mesa, County of Maricopa, and State of Arizona; of Higley, County of Maricopa, and State of Arizona; of Mesa, County of Maricopa, and State of Arizona; of Mesa, County of Maricopa, and State of Arizona; of Scottsdale, County of Maricopa, and State of Arizona; of Mesa, County of Maricopa, and State of Arizona; respectively, have made new and useful improvements in INITIATOR FOR AIR BAG INFLATOR;

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 me paid, the receipt whereof is hereby acknowledged, we, the said Bryan W. Shirk, Ahmad K. Al-Amin, Timothy A. Swann, Roy D. Van Wynsberghe, Jess A. Cuevas, Thomas H. Deming, Philip S. Peterson, Gerald W. Thomas, Frederick D. Venable, and Daniel L. White 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 November 1998, on the 13th day of November 1998, on the 13 day of November 1998, on the 13th day of November 1998, on the 13th day of November 1998, on the 13th day of NOVEMBER 1998, all patents granted 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 Mesa
County of Maricopa and State of Arizona
this 13th day of November, 1998.

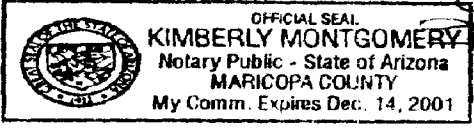


Bryan W. Shirk

STATE OF Arizona
COUNTY OF Maricopa

SS:

On this 13th day of November, 1998.
personally appeared before me Bryan W. Shirk 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.



Kimberly Montgomery
Notary Public

Signed at Mesa
County of Maricopa
this 13th

and State of Arizona, 1998.
day of November

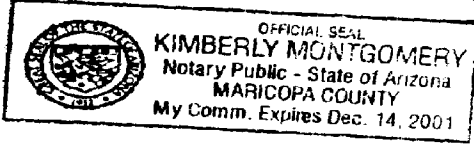
[Signature]

Ahmad K. Al-Amin

STATE OF Mesa
COUNTY OF Maricopa

SS:

On this 13th day of November, 1998.
personally appeared before me Ahmad K. Al-Amin 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.



Kimberly Montgomery
Notary Public

Signed at Mesa
County of Maricopa
this 13th

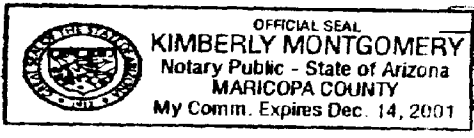
and State of Arizona, 1998.
day of November

[Signature]
Timothy A. Swann

STATE OF Arizona
COUNTY OF Maricopa

SS:

On this 13th day of November, 1998.
personally appeared before me Timothy A. Swann 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.



Kimberly Montgomery
Notary Public

Signed at Mesa
County of Maricopa
this 13th

and State of Arizona
day of November, 1998.

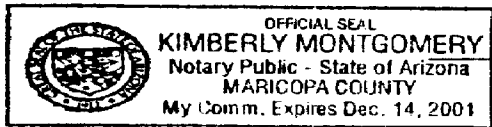
Roy D. Van Wynsberghe

Roy D. Van Wynsberghe

STATE OF Arizona
COUNTY OF Maricopa

SS:

On this 13th day of November, 1998,
personally appeared before me Roy D. Van Wynsberghe 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.



Kimberly Montgomery
Notary Public

Signed at Mesa
County of Maricopa
this 18th

and State of Arizona
day of November, 1998.

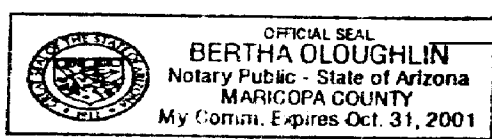
Jess A. Cuevas
Jess A. Cuevas

Jess A. Cuevas

STATE OF Arizona
COUNTY OF Maricopa

SS:

On this 18th day of November, 1998,
personally appeared before me Jess A. Cuevas 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.



Bertha O'Loughlin
Notary Public

Notary Public

Signed at Arizona
County of Maricopa
this 12th

and State of Arizona
day of November, 1998.

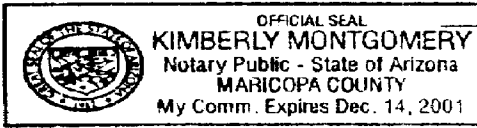
Thomas H. Deming

Thomas H. Deming

STATE OF *Arizona*
COUNTY OF *Maricopa*

SS:

On this *13th* day of *November*, 19*98*,
personally appeared before me Thomas H. Deming 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.



Kimberly Montgomery
Notary Public