

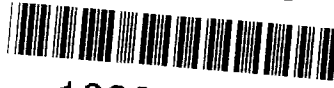
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U.S. Department of Commerce  
Patent and Trademark Office

OUR FILE TRW(AS)6591

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To the Honorable Commissioner of Patents and Trademarks: Please receive... ed original documents or copy thereof.

1. Name of conveying party(ies):  
Rolf Ruckdeschel

2. Name and address of receiving party(ies)

Name: TRW Airbag Systems GmbH

Internal Address:

Werner-von-Braun-Strasse 1, 84544 Aschau/Inn GERMANY

Street Address:

City: State: Zip:

Additional name(s) and address(es) attached?  Yes  No

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

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other \_\_\_\_\_

Execution Date: May 8, 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)

B. Patent No.(s)

U.S. Serial No. 10/440,659  
Filed: May 19, 2003

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 I.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

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

*Thomas Tarolli*  
Signature

10-7-05  
Date

Total number of pages including cover sheet, attachments, and document: 2

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

PATENT  
REEL: 017067 FRAME: 0454

ASSIGNMENT

WHEREAS, I,

Rolf RUCKDESCHEL  
An der Dornzeile 22  
87645 Schwangau / Germany

have made new and useful improvements in a

Tubular Gas Generator

WHEREAS, TRW Airbag Systems GmbH, a corporation duly organized and existing under the laws of the Federal Republic of Germany, having a place of business at Wernher-von-Braun-Strasse 1, 84544 Aschau/Inn, Federal Republic of Germany, 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, I, the said Rolf RUCKDESCHEL, do hereby assign, sell and set over unto the said TRW Airbag Systems GmbH, its successors or assigns; the entire right, title and interest in and to the aforesaid improvements and any and all inventions pertaining thereto, the application for United States patent executed by me on the 8 day of May 2003, 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 I 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 Airbag Systems GmbH, its successors or assigns; and I further agree to execute such other applications and other instruments and do all other acts as may be deemed necessary by the said TRW Airbag Systems GmbH, its successors or assigns in order fully to 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 Airbag Systems GmbH, its successors or assigns.

Executed this 8 day of May 2003

Rolf Ruckdeschel  
Rolf RUCKDESCHEL

Witnessed:

[Signature]  
(Pritz)

[Signature]  
(Unterforthuber)