

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT | | | | | | | | | | |
|--|--|---------------|---------------------|-----------------|---------------------------|----------------|------------|----------------|------------|--------------|-------|
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the receiving party on the recordation cover sheet dtd 3/18/1994 to correspond to conveyance document previously recorded on Reel 006892 Frame 0988. Assignor(s) hereby confirms the assignment to assignee the entire right, title and interest in said invention, Serial No. 08/198,615 on February 18, 1994. | | | | | | | | | | |
| CONVEYING PARTY DATA | | | | | | | | | | | |
| <table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Ben A Lloyd</td><td>01/20/1994</td></tr><tr><td>Neal A Mumford</td><td>01/20/1994</td></tr><tr><td>Rolf M Johns</td><td>01/20/1994</td></tr></tbody></table> | | Name | Execution Date | Ben A Lloyd | 01/20/1994 | Neal A Mumford | 01/20/1994 | Rolf M Johns | 01/20/1994 | | |
| Name | Execution Date | | | | | | | | | | |
| Ben A Lloyd | 01/20/1994 | | | | | | | | | | |
| Neal A Mumford | 01/20/1994 | | | | | | | | | | |
| Rolf M Johns | 01/20/1994 | | | | | | | | | | |
| RECEIVING PARTY DATA | | | | | | | | | | | |
| <table border="1"><tr><td>Name:</td><td>Thiokol Corporation</td></tr><tr><td>Street Address:</td><td>2475 Washington Boulevard</td></tr><tr><td>City:</td><td>Ogden</td></tr><tr><td>State/Country:</td><td>UTAH</td></tr><tr><td>Postal Code:</td><td>84401</td></tr></table> | | Name: | Thiokol Corporation | Street Address: | 2475 Washington Boulevard | City: | Ogden | State/Country: | UTAH | Postal Code: | 84401 |
| Name: | Thiokol Corporation | | | | | | | | | | |
| Street Address: | 2475 Washington Boulevard | | | | | | | | | | |
| City: | Ogden | | | | | | | | | | |
| State/Country: | UTAH | | | | | | | | | | |
| Postal Code: | 84401 | | | | | | | | | | |
| PROPERTY NUMBERS Total: 1 | | | | | | | | | | | |
| <table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Patent Number:</td><td>5545278</td></tr></tbody></table> | | Property Type | Number | Patent Number: | 5545278 | | | | | | |
| Property Type | Number | | | | | | | | | | |
| Patent Number: | 5545278 | | | | | | | | | | |
| CORRESPONDENCE DATA | | | | | | | | | | | |
| Fax Number: (952)351-3036 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> | | | | | | | | | | | |
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| Email: deborah.ledbeter@atk.com | | | | | | | | | | | |
| Correspondent Name: Deborah Ledbeter | | | | | | | | | | | |
| Address Line 1: 5050 Lincoln Drive | | | | | | | | | | | |
| Address Line 2: MN01-2070 | | | | | | | | | | | |
| Address Line 4: Edina, MINNESOTA 55436 | | | | | | | | | | | |
| ATTORNEY DOCKET NUMBER: | 20871US03 | | | | | | | | | | |

CH \$40.00 5545278

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PATENT
REEL: 018160 FRAME: 0484

NAME OF SUBMITTER:

Laura A. Ryan

Total Attachments: 4

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RECORDATION FORM COVER SHEET
PATENTS ONLYU.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Tab settings =

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

1. Name of conveying party(ies):

Ben A. Lloyd, Neal A. Mumford,
Rolf M. JohnsAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

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

Execution Date: January 20, 1994

2. Name and address of receiving party(ies)

Name: Cheng-Chi Chen

Internal Address: Thiokol Corporation

Street Address: 2475 Washington Boulevard

City: Ogden State: Utah ZIP: 84401

Additional name(s) & 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: _____

A. Patent Application No.(s)

08/081,839

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: L. Craig Metcalf

Internal Address:

Street Address: 950 First Interstate Plaza

170 South Main Street

City: SLIC State: Utah ZIP: 84101

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)

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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.

L. Craig Metcalf

Name of Person Signing

Signature

2/18/94

Date

Total number of pages including cover sheet, attachments, and document: (4)

A S S I G N M E N T

We, Ben A. Lloyd, Neal A. Mumford, and Rolf M. Johns, respectively, have invented a method and apparatus entitled METHOD FOR INCREASING FIBER STRENGTH TRANSLATION IN COMPOSITION PRESSURE VESSELS USING MATRIX RESIN FORMULATIONS CONTAINING ANHYDRIDE CURING AGENTS AND SURFACE-ACTIVE AGENTS, which application is a continuation-in-part of copending application, Serial No. 08/081,839, filed June 23, 1993, entitled "Method For Increasing Fiber Strength Translation In Composite Pressure Vessels Using Matrix Resin Formulations Containing Surface Active Agents" now allowed, which is a continuation of application Serial No. 07/426,890, filed October 25, 1989, now abandoned; hereinafter called the "invention."

Preferred embodiments of said invention are disclosed in a United States patent application executed concurrently herewith by us and now identified as File No. 1090.2.62a of the law firm of Madson & Metcalf, 950 First Interstate Plaza, 170 South Main Street, Salt Lake City, Utah 84101, and filed in the United States Patent and Trademark Office as Serial No. 08/198,615 on February 18, 1994. (We hereby authorize the attorneys of Madson & Metcalf to insert said serial number and filing date when known.)

The Assignee, Thiokol Corporation, a corporation of the State of Delaware, having a principal place of business at 2475 Washington Boulevard, Ogden, Utah 84401, desires to secure the entire right, title and interest in said invention.

REEL 6892 FRAME 989

In consideration of \$1.00 and other good and valuable consideration paid to us by the Assignee, the receipt and sufficiency of which we hereby acknowledge, WE HEREBY ASSIGN TO THE ASSIGNEE:

The entire right, title and interest in said invention in the above-identified United States patent application and in all divisions, continuations and continuations-in-part of said application, or reissues or extensions of Letters Patent or Patents granted thereon, and in all corresponding applications filed in countries foreign to the United States, and in all patents issuing thereon in the United States and foreign countries.

The right to file foreign patent applications on said invention in its own name, wherever such right may be legally exercised, including the right to claim the benefits of the International Convention for such applications.

We hereby authorize and request the United States Commissioner of Patents and Trademarks, and such Patent Office officials in foreign countries as are duly authorized by their patent laws to issue patents, to issue any and all patents on said invention to the Assignee as the owner of the entire interest, for the sole use and behoof of the said Assignee, its successors, assigns and legal representatives.

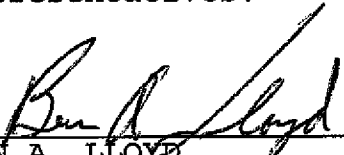
We hereby agree, without further consideration and without expense to us, to sign all lawful papers and to perform all other lawful acts which the Assignee may request of us to make this Assignment fully effective, including, by way of example but not of limitation, the following:

Prompt execution of all original, divisional, substitute, reissue, and other United States and foreign patent applications on said invention, and all lawful documents requested by the Assignee to

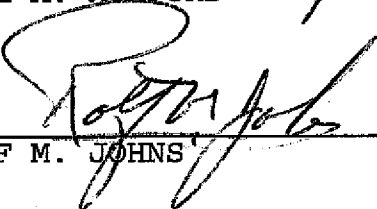
further the prosecution of any of such patent applications.

Cooperation to the best of our ability in the execution of all lawful documents, the production of evidence, nullification, reissue, extension, or infringement proceedings involving said invention.

This assignment and agreement shall be binding upon our heirs and legal representatives.

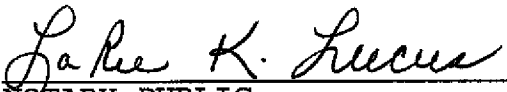

BEN A. LLOYD


NEAL A. MUMFORD


ROLF M. JOHNS

STATE OF UTAH)
COUNTY OF Box Elder) ss.

On January 20, 1994, before me personally appeared Ben A. Lloyd, Neal A. Mumford, and Rolf M. Johns, known to me to be the persons described and who signed the foregoing Assignment in my presence and acknowledged under oath before me that they have read the same and know the contents thereof and that they executed the same as their free act and deed and for the purposes set forth therein.


NOTARY PUBLIC
Residing at Brigham City, Ut

My Commission Expires:
June 12, 1994 FEB 18 94

a:thio62a.asn

