

04-25-2000

U. S. DEPARTMENT OF COMMERCE

FORM PTO-1595
(Rev. 6-93) Patent and Trademark Office
OMB No. 0651-0011 (exp 4/94)



101332770

To the Honorable Commissioner of Patents and Trademarks

Documents or copy thereof.

1. Name of conveying party(ies):

Quan V. Nguyen, James L. Larsen,
Michael A. Siracki and Chris E. Cawthorne

Additional name(s) of conveying party(ies):

Attached? Yes No

2. Name and address of receiving party(ies):

SMITH INTERNATIONAL, INC.
16740 Hardy St.
Houston, Texas 77032

Additional name(s) & address(es):

Attached? Yes No

JC564 U.S. PTO
09/547691
04/12/00

3. Nature of conveyance:

 Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: April 11, 2000

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 : April 11, 2000

09/547691

A. Patent Application No.(s).

Additional numbers attached? Yes No

B. Patent No.(s).

Additional numbers attached? Yes No

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

Robert Gray
Conley, Rose & Tayan, P.C.
P. O. Box 3267

6. Total number of application and patents involved: 1

04/24/2000 LUSHING 0000028: 09547691
03 FC:501 40.00 DP

7. Total fee (37 CFR 3.41) \$ 40.00
 See Application Fee Transmittal form
 Enclosed
 Authorized to be charged to deposit account

8. Deposit account number: 03-2769

(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 if a true copy of the original document

ROBERT GRAY
Name of Person Signing

Signature

April 12, 2000
Date

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

ASSIGNMENT

IN CONSIDERATION OF TEN DOLLARS (\$10.00) cash in hand paid to us by SMITH INTERNATIONAL, INC., and other valuable consideration, the receipt and sufficiency of which are hereby acknowledged, we, QUAN V. NGUYEN, JAMES L. LARSEN, MICHAEL A. SIRACKI, and CHRIS E. CAWTHORNE ("ASSIGNORS"), having made an invention in DIRECTIONAL FLOW NOZZLE RETENTION BODY while in the employ of SMITH INTERNATIONAL, INC., a corporation organized and existing under the laws of the State of Delaware, doing business at 16740 Hardy Street, Houston, Texas 77032 (sometimes hereinafter called "ASSIGNEE"), do hereby ASSIGN, SELL and CONVEY to said ASSIGNEE, its successors and assigns, the entire right, title and interest throughout the world in and to:

1. Said invention in DIRECTIONAL FLOW NOZZLE RETENTION BODY;
2. United States of America patent application on said invention filed herewith, entitled DIRECTIONAL FLOW NOZZLE RETENTION BODY;
3. All applications for patent or like protection on said invention that have now been or may in the future be made by us or our legal representatives, whether in the United States of America or any other place anywhere in the world;
4. All patents and like protection that have now been or may in the future be granted on said invention to us or our legal representatives, whether in the United States of America or in any other country or place anywhere in the world;
5. All substitutions for and divisions, continuations, continuations-in-part, renewals, reissues, extensions, and the like of said applications and patents and like grants, including without limitations, those obtained or permissible under past, present and future law and statutes;
6. All rights of action on account of past, present and future unauthorized use of said invention for infringement of said patents and like protection;

- 7 The right to ASSIGNEE to file in its name applications for patents and like protection for said invention in any country or countries foreign to the United States; and
- 8 All international rights of priority associated with said invention, applications, patents and like protection;

and we covenant that we, our heirs, legal representatives, assigns, administrators, and executors will at the expense of ASSIGNEE, its successors and assigns, execute all papers and perform such other acts as may be reasonably necessary to give ASSIGNEE, its successors and assigns, the full benefit of this Assignment.

EXECUTED at Houston, Texas on the date indicated below, opposite our signatures.

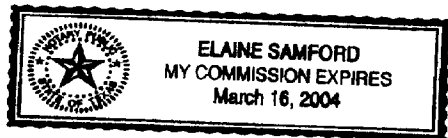
04/11/00
Date

Quan van Nguyen
QUAN V. NGUYEN

THE STATE OF TEXAS §
 §
COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared QUAN V. NGUYEN, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 11 day of April, 2000.



Elaine Samford
Notary Public in and for
the State of TEXAS

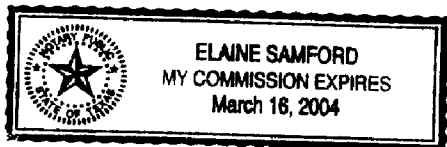
4/11/00
Date

James L. Larsen
JAMES L. LARSEN

THE STATE OF TEXAS §
 §
COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared JAMES L. LARSEN, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 11 day of April, 2000.



Elaine Samford
Notary Public in and for
the State of T E X A S

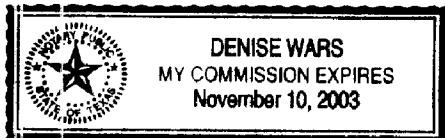
4/1/00
Date

Michael A. Siracki
MICHAEL A. SIRACKI

THE STATE OF TEXAS §
 §
COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared MICHAEL A. SIRACKI, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 11th day of April, 2000.



Denise Wars
Notary Public in and for
the State of T E X A S

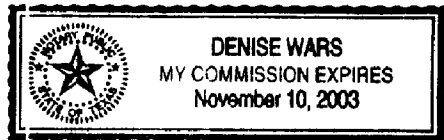
4/11/00
Date

Chris E. Cawthorne
CHRIS E. CAWTHORNE

THE STATE OF TEXAS §
 §
COUNTY OF HARRIS §

BEFORE ME, the undersigned authority, on this day personally appeared CHRIS E. CAWTHORNE, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 11th day of April, 2000.



Denise Wars
Notary Public in and for
the State of TEXAS