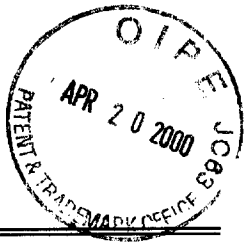


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To the Honorable Commissioner of Patents and Trademarks:
Please record the attached original documents or copies thereof.

1. Name(s) of conveying party(ies):

1) Mark W. Pilling, 2) Dale E. Nutter

2. Name(s) and Address(es) of receiving party(ies):

SULZER CHEMTECH USA, INC.
639 West 41st Street
Tulsa, Oklahoma 74107-7018

3. Nature of conveyance: Assignment
Execution Date: November 23, 1999

4A. Patent Application No.(s): 09/413,885
Application execution date : November 23, 1999
4B. Patent No.(s):

5. Name and Address of Party to whom correspondence regarding this document should be mailed:

Dennis C. Rodgers
Smith, Gambrell & Russell, LLP
Beveridge, DeGrandi, Weilacher & Young
Intellectual Property Group
1850 M Street N.W. (Suite 800)
Washington, DC 20036
202 659-2811

6. Total number of applications and patents involved : one

7. Total fee: \$40.00.
(Enclosed. Please charge any deficiency or refund any excess to counsel's deposit account.)

8. Deposit account no.: 02-4300

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.

Name of Person Signing : Dennis C. Rodgers

Signature: _____

Date: April 20, 2000

ASSIGNMENT

The PATENT RIGHTS referred to in this agreement include the following United States patent application, any divisional or continuation applications based thereon, and all original, reissued and reexamined patents resulting from said applications:

Inventors: Mark W. Pilling
Dale E. Nutter

For: VAPOR-LIQUID CONTACT APPARATUS

Filed: October 7, 1999

Application No.: 09/413,885

The ASSIGNORS referred to in this agreement are

Mark W. Pilling
12317 S. 18th Street
Jenks, Oklahoma 74037

Dale E. Nutter
7628 South Oswego Place
Tulsa, Oklahoma 74136

The ASSIGNEE referred to in this agreement is

SULZER CHEMTECH USA, INC.
639 West 41st Street
Tulsa, Oklahoma 74107-7018

The ASSIGNORS, for good and valuable consideration, receipt of which is acknowledged, hereby assign to the ASSIGNEE the full and exclusive right to the invention, and the entire right, title, and interest in and to the PATENT RIGHTS.

The ASSIGNORS agree to communicate to the ASSIGNEE or its representatives any facts known to the ASSIGNORS respecting the invention and testify in any legal proceedings, sign all lawful papers, execute all reissue applications, execute all necessary assignment documents, make all rightful oaths, and generally do everything necessary or desirable to aid the ASSIGNEE, its successors and assigns, to obtain and enforce proper protection for the invention.

The ASSIGNORS authorize any attorneys and agents who have a power of attorney in this application to insert the application number in this document after it has been executed.

Signature: *Mark W. Pilling*
Mark W. Pilling

Signature: *Dale E. Nutter*
Dale E. Nutter

NOTARIAL STATEMENT

State of Oklahoma)
) SS
County of Tulsa)

Signed and sworn to before me by Mark W. Pilling and Dale E. Nutter

on 23rd day of November, 1999.

Signature: *Brenda K. Stephenson*
Notary Public

My commission expires 08.22.2002.



SGRDC\115637.1