

03-18-2002

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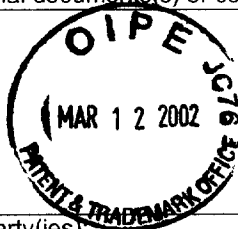


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U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark OfficeTo The Honorable Commissioner of Patents and Trademarks:  
Please record the attached original document(s) or copy(ies) thereof.

Docket No.: P06580US0/RFH

## 1. Name of conveying party(ies)

SCHILLIG, Henning  
SCHNEIDER, Inga  
STANDFUSS, Christine  
HEIM, Sabrina  
3-12-02ARNOLD, Tatjana  
KEEPING, Sean Crispian  
BINZ, Dieter  
VOGEL, Albrecht

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

Name: ABB LIMITED  
Street Address: Stonefield Works, Oulton Road, Stone,  
City + Address: Staffordshire ST15 0RS, United Kingdom

## 3. Nature of conveyance:

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

Execution Date: Jan. 3, 2002; Jan. 30, 2002; Feb. 6, 2002; Feb. 7, 2002; Feb. 19, 2002; Feb. 22, 2002; Mar. 1, 2002

## 4. Application number(s) or patent number(s)

This document is filed together with a new application whose execution date is:

A. Patent Application No.(s)

B. Patent No.(s)

09/444,403

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

Name: Ross F. Hunt, Jr. Tel.: 703-739-4900  
LARSON & TAYLOR, PLC • 1199 North Fairfax St. • Suite 900 • Alexandria, VA 22314-1437

## 6. Total number of applications and patents involved:

#1

## 7. Total fee (37 CFR 3.41)

☒ Enclosed (fee code 581)

\$40.00

(8. Any insufficiency in fee is authorized to be charged to Deposit Account No. 12-0555.)

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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.

Ross F. Hunt, Jr. 24,082  
Name of person signing  
SignatureMarch 12, 2002  
Date

Total number of pages including cover sheet, attachments and documents: 3

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PATENT  
REEL: 012670 FRAME: 0623

**ASSIGNMENT OF PATENT APPLICATION**

(US rights only - all US rights assigned by inventors to a single assignee)

WHEREAS,

- (1) Henning SCHILLIG
- (2) Inga SCHNEIDER
- (3) Christine STANDFUSS
- (4) Sabrina HEIM
- (5) Tatjana ARNOLD
- (6) Sean Crispian KEEPING
- (7) Dieter BINZ
- (8) Albrecht VOGEL

residing respectively at

- (1) Mascheroder Weg 1, D-38124 Braunschweig, GERMANY
- (2) Mascheroder Weg 1, D-38124 Braunschweig, GERMANY
- (3) Mascheroder Weg 1, D-38124 Braunschweig, GERMANY
- (4) Mascheroder Weg 1, D-38124 Braunschweig, GERMANY
- (5) Mascheroder Weg 1, D-38124 Braunschweig, GERMANY
- (6) 16 Church Road, Shortlands, Kent, BR2 0HP, UNITED KINGDOM
- (7) Wallstadter Str. 59, 68528 Ladenburg, GERMANY
- (8) Maerchenstrasse 32b, D-76297 Stutensee, GERMANY

(herewith referred to as the "ASSIGNOR") has/have invented certain new and useful improvements in *MICROBIAL MEMBRANE REACTOR FOR USE IN FLOW SYSTEMS*

for which an application for a United States Patent

was executed on even date herewith

was executed on

XX was filed on November 22, 1999, as Serial No.: 09/444,403

And WHEREAS, ABB LIMITED

whose Post Office Address is Stonefield Works, Oulton Road, Stone,  
Staffordshire ST15 0RS, UNITED KINGDOM

(hereinafter referred to as the "ASSIGNEE") is desirous of acquiring the entire right, title and interest in and to said application and the invention(s) and improvements(s) therein disclosed, for the United States of America, and any Letters Patent which may issue therefor in the United States and all divisions, continuations, reissues, renewals and/or extensions thereof.

NOW THEREFORE in consideration of the sum of ten U.S. dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the ASSIGNOR does hereby assign, sell, transfer and set over unto the ASSIGNEE the entire right, title and interest in and to said application and the invention(s) and improvement(s) therein disclosed, for the United States of America, and any Letters Patent which may issue therefor in the

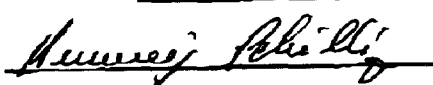
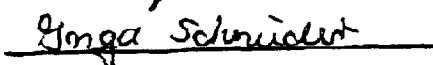
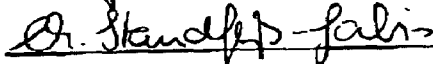
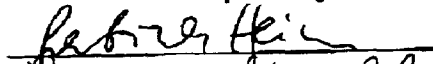

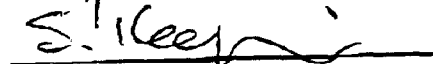
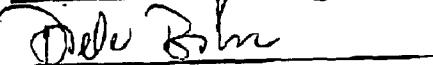
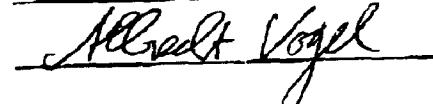
United States and all divisions, continuations, reissues, renewals and/or extensions thereof, said ASSIGNEE to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, continuations, reissues, renewals and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by the ASSIGNOR had this assignment not been made.

And for the consideration aforesaid, ASSIGNOR agrees that ASSIGNOR will communicate to said ASSIGNEE or the representatives thereof any facts known to ASSIGNOR respecting the invention(s) and improvement(s) of the said United States application, and will, upon request, but without expense to ASSIGNOR, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, renewal and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said ASSIGNEE or by counsel for said ASSIGNEE, to assist or enable said ASSIGNEE to obtain and enforce full benefits from the rights and interests herein assigned.

This assignment shall be binding upon the ASSIGNOR's heirs, executors, administrators, successors and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of the ASSIGNEE.

The Commissioner of Patents is requested to issue such Letters Patent in accordance with this assignment.

I hereby authorize and request any attorney of record in said Application or any attorney of Larson & Taylor, PLC, Customer No. 00881, to insert above any information concerning the identity of the parties or of said Application (including the serial no. and filing date).

	<u>NAME</u>	<u>SIGNATURE</u>	<u>DATE</u>
1)	Henning SCHILLIG		<u>22.02.02</u>
2)	Inga SCHNEIDER		<u>22.02.02</u>
3)	Christine STANDFUSS		<u>07.02.02</u>
4)	Sabrina HEIM		<u>06.02.02</u>
5)	Tatjana ARNOLD		<u>19.02.02</u>
6)	Sean Crispian KEEPING		<u>3/1/02</u>
7)	Dieter BINZ		<u>30/1/02</u>
8)	Albrecht VOGEL		<u>07/02/02</u>