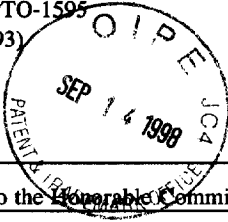


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Attorney's Docket No. 004500-889

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

M&D 9-14-98

1. Name of conveying party(ies):  
Gunter MECHTERSHEIMER, Christian WIECKERT

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

3. Nature of conveyance:  
 Assignment  Merger  
 Security Agreement  Change of Name

Other: \_\_\_\_\_

Execution Date: 1/20/97

2. Name and address of receiving party(ies):  
Name: ABB Research Ltd.  
Address: CH-8050 Zurich  
Switzerland

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)  
08/786,343

B. Patent No.(s)  
\_\_\_\_\_

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: Robert S. Swecker  
Address: BURNS, DOANE, SWECKER & MATHIS, L.L.P.  
P.O. Box 1404  
Alexandria, Virginia 22313-1404

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, if necessary

8. Deposit account number:  
02-4800

09/21/1998 JENR02ZZ 00000005 00706343  
01 FC:581 40.00 SP

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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.*

Robert S. Swecker, #19,885      [Signature]      September 14, 1998  
Name of Person Signing      Signature      Date

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

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks  
Box Assignments  
Washington, D.C. 20231

\_\_\_\_\_  
Attorney's Docket No.

## ASSIGNMENT (JOINT)

THIS ASSIGNMENT, by Günter Mechtersheimer and  
Christian Wieckert, and  
\_\_\_\_\_, residing at CH-5200 Brugg and CH-5703 Seon,  
both Switzerland

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ and  
\_\_\_\_\_ (hereinafter  
referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in Process for vitrifying residues from flue gas cleaning,  
[ ] which is a provisional application to be filed herewith;  which is a non-provisional application  
having an oath or declaration executed on even date herewith prior to filing of application; [ ]  
bearing Application No. \_\_\_\_\_, and filed on \_\_\_\_\_; and

WHEREAS, ABB Research Ltd, a corporation duly  
organized under and pursuant to the laws of Switzerland and having its  
principal place of business at CH-8050 Zürich, Switzerland  
\_\_\_\_\_ (hereinafter referred to as "the Assignee"), is  
desirous of acquiring the entire right, title, and interest in and to said inventions, the right to file  
applications on said inventions and the entire right, title and interest in and to any applications,  
including provisional applications for Letters Patent of the United States or other countries claiming  
priority to said application, and in and to any Letters Patent or Patents, United States or foreign,  
to be obtained therefor and thereon.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and  
sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold,  
assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over,  
unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and  
interest in and to the above-mentioned inventions, the right to file applications on said inventions  
and the entire right, title and interest in and to any applications for Letters Patent of the United  
States or other countries claiming priority to said application, and any and all Letters Patent or  
Patents of the United States of America and all foreign countries that may be granted therefor and  
thereon, and in and to any and all applications claiming priority to said applications, divisions,  
continuations, and continuations-in-part of said applications, and reissues and extensions of said  
Letters Patent or Patents, and all rights under the International Convention for the Protection of  
Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and behalf  
and the use and behalf of its successors, legal representatives, and assigns, to the full end of the  
term or terms for which Letters Patent or Patents may be granted as fully and entirely as the same  
would have been held and enjoyed by the Assignors had this sale and assignment not been made;

AND for the same consideration, the Assignors hereby covenant and agree to and with  
the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and  
delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title,  
and interest in and to the inventions set forth in said applications and said applications, including  
provisions applications, above-mentioned, and that the same are unencumbered, and that the

Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns that the Assignors will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said applications for Letters Patent or Patents, or any proceeding in connection with Letters Patent or Patents for said inventions in any country, including interference proceedings, is lawful and desirable, or that any application claiming priority to said application, division, continuation, or continuation-in-part of any applications for Letters Patent or Patents, or any reissue or extension of any Letters Patent or Patents to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Patents for said inventions, without charge to the Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns;

AND the Assignors hereby request the Commissioner of Patents to issue any and all said Letters Patent of the United States to the Assignee as the Assignee of said inventions, the Letters Patent to be issued for the sole use and behalf of the Assignee, its successors, legal representatives, and assigns.

Date 1997-01-20 Name of Assignor Frank Hochheimer

Date 1997-01-20 Name of Assignor Christian Wiecht

Date \_\_\_\_\_ Name of Assignor \_\_\_\_\_

Date \_\_\_\_\_ Name of Assignor \_\_\_\_\_

Date \_\_\_\_\_ Name of Assignor \_\_\_\_\_

Date \_\_\_\_\_ Name of Assignor \_\_\_\_\_

Date \_\_\_\_\_ Name of Assignor \_\_\_\_\_

Date \_\_\_\_\_ Name of Assignor \_\_\_\_\_