



To the Honorable Commissioner.

102643171

nal documents or copy thereof.

1. Name of conveying party(ies): **1.8.04**

1) Stefan Bernet

2) Thomas Brückner

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

2. Name and address of receiving party(ies)

Name: ABB Research LTD.

Street Address: Affolternstr. 52

City: Zürich

State: Switzerland

ZIP: CH-8050

Additional name(s) & address(es) attached  Yes  No

3. Nature of conveyance:

Assignment  Merger

Security Agreement  Change of Name

Other

**Execution Date: March 26, 2003**

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):

**10/388,022**

Additional numbers attached  Yes  No

B. Patent No.(s):

Stamp: **2004 JAN - 8 AM 7:58**  
**OPR/FINANCE**

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

Name: Lerner and Greenberg

Internal Address:

Street Address: P.O. Box 2480

City: Hollywood

State: FL

ZIP: 33022

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 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.*

**DENISE LETTAU**

\_\_\_\_\_  
Name of Person Signing

*Denise Lettau*  
\_\_\_\_\_  
Signature

**January 5, 2004**  
\_\_\_\_\_  
Date

Total number of pages including cover sheet, attachments, and document: **2**

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Mail documents to be recorded with required cover sheet information to:  
Commissioner for Patents, Mail stop  
Alexandria, VA 22313-1450

Docket No.: Mp.-Nr. 01/592

### ASSIGNMENT

WHEREAS WE, STEFFEN BERNET and THOMAS BRÜCKNER, residing respectively at BAMMENTAL and HEIDENAU, Germany, have invented certain new and useful improvements in an

#### OPEN-LOOP AND CLOSED-LOOP CONTROL METHOD FOR A THREE-POINT CONVERTER WITH ACTIVE CLAMPED SWITCHES, AND APPARATUS FOR THIS PURPOSE

for which an application for Letters Patent of the United States of America was executed on the date of execution of this assignment;

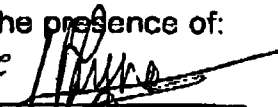
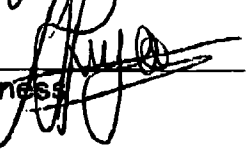
WHEREAS, ABB RESEARCH LTD., a Swiss limited liability company doing business at Zürich, Switzerland, is desirous of acquiring the entire interest in said invention, and in any and all Letters Patent of the United States that may be obtained therefor;

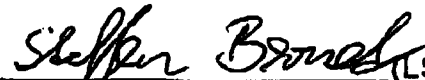
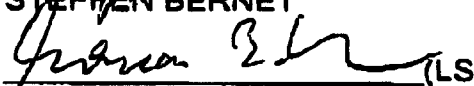
NOW, THEREFORE, be it known that for and in consideration of our employment by the said company and other valuable consideration, the receipt and sufficiency whereof are hereby acknowledged, we have sold, assigned and transferred, and by these presents do sell, assign and transfer unto the said company, its legal representatives, successors and assigns, the full and exclusive right to the said invention as fully set forth and described in the above-mentioned application, and to said application and any and all divisions and continuations thereof, and any and all Letters Patent of the United States which may be granted therefor, and any and all reissues of said Letters Patent, the same to be held and enjoyed by the said company, its legal representatives, successors and assigns, to the full end of the term for which said Letters Patent may be granted or may be reissued or extended, as fully and entirely as the same would have been held by us had this assignment and sale not been made.

AND WE hereby authorize the Commissioner of Patents to issue any and all Letters Patent of the United States on said invention or resulting from said Application and from any and all divisions and continuations thereof to the said company as the assignee of the entire right, title and interest in and to the same.

IN TESTIMONY WHEREOF, we have hereunto set our hands and seals.

In the presence of:

*Lu. MEYSENC*  
  
 Witness  
  
*Lu. MEYSENC*  
  
 Witness

  
 (LS)  
 STEFFEN BERNET  
  
  
 (LS)  
 THOMAS BRÜCKNER

Date: 2003-03-26

Date: 2003-03-26