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DT12 Rec'd PCT/PTO 12 DEC 2002U.S. DEPARTMENT OF COMMERCE  
Patent and Trademark Office

Attorney's Docket No. 004501-703

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

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

Ralf STRÜMPLER, Ruzica LOITZL-JELENIC, and  
Joachim GLATZ-REICHENBACHAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name

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

Execution Date: November 29, 2002

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

Name: ABB Research LtdAddress: Affolternstrasse 52CH-8050 ZürichSwitzerlandAdditional 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: November 29, 2002

A. Patent Application No.(s)

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. SweckerAddress: BURNS, DOANE, SWECKER & MATHIS, L.L.P.P.O. Box 1404Alexandria, Virginia 22313-14046. Total number of applications and patents involved: 17. Total fee (37 CFR § 3.41): \$ 40.00☒ Enclosed☒ Authorized to be charged to deposit account, if necessary

## 8. Deposit account number:

02-4800

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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, Reg. No. 19,885

Name of Person Signing

Signature

December 12, 2002

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 JOACHIM GLATZ-REICHENBACH, RUZICA LOITZL-JELENIC,  
and RALF STRÜMLER, residing at KIRCHWEG 4, CH-8274 TÄGERWILEN, SWITZERLAND;  
AHORNWEG 30, CH-5416 KIRCHDORF, SWITZERLAND and OBERRIEDENSTRASSE 35B, CH-5412  
GEBENSTORF, SWITZERLAND (hereinafter referred to as "the Assignors"), respectively,  
witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements  
in Method of producing a PTC resistor device set forth in an application for Letters Patent of  
the United States,

- (1) ☐ which is a provisional application
  - (a) ☐ to be filed herewith; or
  - (b) ☐ bearing Application No. \_\_\_\_\_, and filed on \_\_\_\_\_; or
- (2) ☒ which is a non-provisional application
  - (a) ☐ having an oath or declaration executed on even date herewith  
prior to filing of the application;
  - (b) ☐ bearing Application No. \_\_\_\_\_, and filed on  
\_\_\_\_\_ ; or
  - (c) ☐ to be filed; and

WHEREAS, ABB RESEARCH LTD, a corporation duly organized under and  
pursuant to the laws of SWITZERLAND and having a principal place of business at  
AFFOLTERNSTRASSE 52, 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 applications, 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;

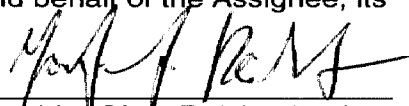
Attorney's Docket No. \_\_\_\_\_

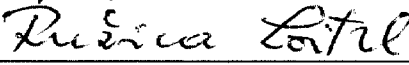
AND for the same consideration, the Assignors hereby covenant and agree to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignors are the sole and lawful owners of the entire right, title, and interest in and to the inventions set forth in said applications and said applications, including provisional 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 authorize and request the attorneys of Burns, Doane, Swecker & Mathis, L.L.P., of Alexandria, Virginia, to insert in the spaces provided above the filing date, application number, and attorney's docket number of said application when known.

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 2002-11-29 SIGNATURE OF ASSIGNOR   
Joachim Glatz-Reichenbach

DATE 2002-11-29 SIGNATURE OF ASSIGNOR   
Ruzica Loitzl-Jelenic

DATE 2002-11-29 SIGNATURE OF ASSIGNOR   
Ralf Strumpler

DATE \_\_\_\_\_ SIGNATURE OF ASSIGNOR \_\_\_\_\_

DATE \_\_\_\_\_ SIGNATURE OF ASSIGNOR \_\_\_\_\_