

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Munaf RAHIMO	07/28/2011
Ulrich SCHLAPBACH	07/28/2011
Armost KOPTA	07/28/2011
RECEIVING PARTY DATA	
Name:	ABB TECHNOLOGY AG
Street Address:	Affolternstrasse 44
City:	Zurich
State/Country:	SWITZERLAND
Postal Code:	CH-8050
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13160945
CORRESPONDENCE DATA	
Fax Number:	(703)836-7419
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	7038366620
Email:	robin.copeland@bipc.com
Correspondent Name:	Buchanan Ingersoll & Rooney PC
Address Line 1:	P.O. Box 1404
Address Line 4:	Alexandria, VIRGINIA 22313-1404
ATTORNEY DOCKET NUMBER:	1004501-001192
NAME OF SUBMITTER:	Patrick C. Keane
Total Attachments: 2 source=Assignment1192#page1.tif source=Assignment1192#page2.tif	

OP \$40.00 13160945

501613828

PATENT
 REEL: 026687 FRAME: 0497

ASSIGNMENT

(JOINT)

THIS ASSIGNMENT, by (1) Munaf RAHIMO, (2) Ulrich SCHLAPBACH, and (3) Arnost KOPTA, residing at (1) Uezwil, Switzerland; (2) Liebefeld, Switzerland; and (3) Zürich, Switzerland (hereinafter referred to as "the Assignors"), respectively, witnesseth:

WHEREAS, the Assignors have invented certain new and useful improvements in BIPOLAR PUNCH-THROUGH SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING SUCH A SEMICONDUCTOR DEVICE set forth in an application for Letters Patent of the United States, which is a

- (1) ☐ provisional application
 - (a) ☐ bearing Application No. _____, and filed on _____;
 - (b) ☐ to be filed herewith; or
- (2) ☒ non-provisional application
 - (a) ☒ bearing Application No. 13/160,945, and filed on 15 June 2011;
 - (b) ☐ having an oath or declaration executed on even date herewith prior to filing of application;
 - (c) ☐ having an oath or declaration executed on a different date than this Assignment; and

WHEREAS, ABB TECHNOLOGY AG, a corporation duly organized under and pursuant to the laws of Switzerland and having a principal place of business at Affolternstrasse 44, 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.

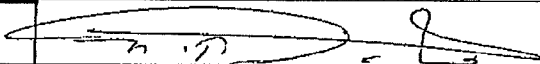
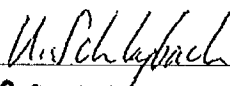
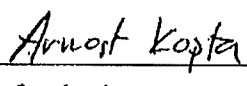
NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignors have sold, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire 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 behoof and the use and behoof 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 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;

I hereby appoint the attorneys and agents associated with the following PTO Customer Number of Buchanan Ingersoll & Rooney PC to prosecute said application and to transact all business in the Patent and Trademark Office connected therewith and to file, prosecute and transact all business in connection with international applications directed to said invention:

Customer Number **2 1 8 3 9**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

FULL NAME OF SOLE OR FIRST INVENTOR	Munaf RAHIMO
Signature	
Date	28. Juli 2011
Residence (City, State, Country)	Uezwil, Switzerland
Citizenship	United Kingdom
Mailing Address	Bachweg 10
City, State, ZIP, Country	CH-5619 Uezwil, Switzerland
FULL NAME SECOND INVENTOR, IF ANY	Ulrich SCHLAPBACH
Signature	
Date	28. Juli 2011
Residence (City, State, Country)	Liebefeld,, Switzerland
Citizenship	Switzerland
Mailing Address	Tulpenweg 33
City, State, ZIP, Country	CH-3097 Liebefeld, Switzerland
FULL NAME THIRD INVENTOR, IF ANY	Arnost KOPTA
Signature	
Date	28. Juli 2011
Residence (City, State, Country)	Zürich, Switzerland
Citizenship	Sweden
Mailing Address	Rütlihofstrasse 10
City, State, ZIP, Country	CH-8049 Zürich, Switzerland