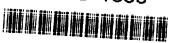
FORM PTO-1595 (Rev. 6/93) F

02-22-1999



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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

IEET

Attorney's Docket No. 004500-924

To the Honorable Commissioner of Patents and Trademarks.	Please record the attached original documents or copy thereof	
TRASS.		
Name of conveying party(ies):	2. Name and address of receiving party(ies):	
Bruce JOHNSON, Vishal MALLICK, Francois MEYNARD	Name: ABB Research Ltd.	
	Address: <u>CH-8050 Zurich</u>	
Additional name(s) of conveying party(ies) attached? [] Yes [x] No	Switzerland	
3. Nature of conveyance:		
[x] Assignment [] Merger [] Security Agreement [] Change of Name		
Other:	Additional name(s) & address(es) attached? [] Yes [x] No	
Execution Date: 6/10/97		
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)	B. Patent No.(s)	
08/880,647		
Additional numbers attach	ed? [] Yes [x] No	
5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:	
Name: Robert S. Swecker	7. Total fee (37 CFR 3.41): \$ 40.00	
Address: Burns, Doane, Swecker & Mathis, L.L.P.	[x] Enclosed	
P.O. Box 1404	[x] Authorized to be charged to deposit account, if necessary	
Alexandria, Virginia 22313-1404	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, #19,885 Name of Person Signing	Signature February 12, 1999 Date	
Total number of pages including cover sheet, attachments, and document: _3_		

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

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> **PATENT REEL: 9762 FRAME: 0483**

(10/97)

Attorney's	Docket No.

ASSIGNMENT

(JOINT)

THIS ASSIGNMENT, by <u>Bruce Johnson</u> , \	Vishal Mallick
	,and
François Meynard , residing at CH-5417 Unter	siggenthal, Switzerland,
CH-5413 Birmenstorf, Switzerland and CH-1	256 Toinex, Switzerland
	and
	(hereinafter
referred to as "the Assignors"), respectively, witnesseth:	
WHEREAS, the Assignors have invented certain ne device having a heating device for heatir	ew and useful improvements in Welding
device having a heating device for heating	ng thermoplastic liber
[] which is a provisional application to be filed herewith; [X] wh	ich is a non-provisional application
having an oath or declaration executed on even date herewit	h 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 ofSwitzerlan	nd and having its
principal place of business at CH-8050 Zürich, St	
	ter referred to as "the Assignee"), is
desirous of acquiring the entire right, title, and interest in and	
applications on said inventions and the entire right, title and ir	
including provisional applications for Letters Patent of the United	
priority to said application, and in and to any Letters Patent or	_
to be obtained therefor and thereon.	
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

Page 1 of 2

(1/96)

Application Serial No.	
Attorney's Docket No.	

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	97-06-10	Name of Assignor Kouce hosen
Date	97-06-10	Name of Assignor × Vishel Mulin.
Date _	97-06-10	Name of Assignor X Francis, Munal
		Name of Assignor
		Name of Assignor
Date _		Name of Assignor
Date		Name of Assignor
Date		Name of Assignor

RECORDED: 02/12/1999