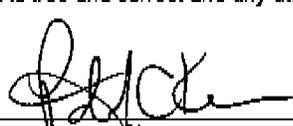


RECORDATION FORM COVER SHEET PATENTS ONLY		U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office
Attorney's Docket No. 034506-002 (Formerly 004501-668)		
To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.		
<p>1. Name of conveying party(ies):</p> <p style="margin-left: 40px;">ABB Research Ltd.</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies):</p> <p>Name: EMS-Patent AG</p> <p>Address: Reichenauerstrasse 7013 Domat/Ems Switzerland</p>	
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger</p> <p><input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name</p> <p><input type="checkbox"/> Other</p> <p>Execution Date: September 14, 2005</p>	Additional name(s) & addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<p>4. Application number(s) or patent number(s):</p> <p>If this document is being filed together with a new application, the execution date of the application is: _____</p>		
<p>A. Patent Application No.(s)</p>	<p>B. Patent No.(s)</p> <p style="margin-left: 40px;">6,829,543</p>	
Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: Patrick C. Keane</p> <p>Address:</p> <p>Buchanan Ingersoll PC Including attorneys from Burns, Doane, Swecker & Mathis Customer Number 2 1 8 3 9 P.O. Box 1404 Alexandria, VA 22313-1404</p>	<p>6. Total number of applications and patents involved: 1</p>	
<p>7. Total fee (37 CFR 3.41).....\$ <u>40.00 (8021)</u></p> <p><input type="checkbox"/> Enclosed</p> <p><input checked="" type="checkbox"/> Authorized to be charged to deposit account</p> <p><input type="checkbox"/> Credit card. Form PTO-2038 is attached.</p>		
<p>8. Deposit account number:</p> <p>02-4800</p> <p>(Attach duplicate copy of this page if paying by deposit account.)</p>		
<p>9. Statement and Signature.</p> <p><i>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.</i></p>		
<p>Patrick C. Keane</p> <hr/> <p>Name of Person Signing</p>	<p>32,858</p> <hr/> <p>Reg. No.</p>	 <hr/> <p>Signature</p>
		<p>October 4, 2005</p> <hr/> <p>Date</p>
<p>Total number of pages including cover sheet, attachments, and documents: 3</p>		

Mail documents to be recorded with required cover sheet information to:
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004501-668

Attorney Docket No.

ASSIGNMENT

WHEREAS, ABB Research Ltd., a corporation duly organized under and pursuant to the laws of the country of Switzerland and having its principal place of business at Ch-8050 Zurich, Switzerland (hereinafter referred to as "the Assignor"), is the sole and exclusive owner, by assignment, of the entire right, title and interest in and to the inventions disclosed in the application for Letters Patent in the United States bearing U.S. Patent No. 6,829,543, issued December 7, 2004, bearing Serial No. 10/187,606, filed July 3, 2002, said assignment recorded in the U.S. Patent and Trademark Office on July 3, 2002, at Reel 013073, at Frame 0050.

WHEREAS, EMS Patent AG, a corporation duly organized under and pursuant to the laws of the Country of Switzerland and having its principal place of business at Reichenauerstrasse, 7013 Domat/Ems, Switzerland, (hereinafter referred to as "the Assignee") is desirous of acquiring the entire right, title and interest in, to and under the said letters patents, applications for letters patents and the inventions covered thereby.

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, the Assignor has sold, assigned, transferred, and set over, and by these presents does 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, application for Letters Patent, 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 divisions, continuations, and continuations-in-part of said application, 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 Assignor had this sale and assignment not been made;

AND for the same consideration, the Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of execution and delivery of these presents, the Assignor is the sole and lawful owner of the entire right, title, and interest in and to the inventions and application for Letters Patent above-mentioned, and that the same are unencumbered, and that the Assignor has 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 Assignor hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns that the Assignor will, whenever

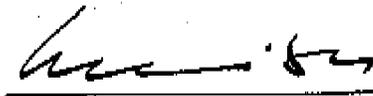
PATENT

Client No. 004501-668
Assignment to Ems Patent AG

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 application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation, or continuation-in-part of any application for Letters Patent, or any reissue or extension of any Letters Patent 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 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 Assignor hereby covenants that it has full right to convey the entire interest herein assigned, and that it has not executed, and will not execute, any agreement in conflict herewith.

ABB Research Ltd.

By: 

Beat Weibel

Title: Authorized Representative

Date: September 14th, 2005