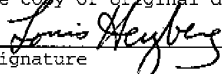


Atty. Docket No. CH9200300080US1

**RECORDATION FORM COVER SHEET
PATENTS ONLY**

To The Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.	
<p>1. Name of conveying party(ies):</p> <p>Rolf Allenspach Johannes G. Bednorz Gerhard Ingmar Meijer Chung Hon Lam Richard Stutz Daniel Widmer</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: International Business Machines Corporation Address: New Orchard Road Armonk, NY 10504</p> <p>Additional name(s) & addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance:</p> <p><input checked="" type="checkbox"/> Assignment</p> <p>Execution Date(s): <u>June 9, 2005, June 9, 2005, May 30, 2005, August 1, 2005, May 11, 2005 and May 10, 2005, respectively.</u></p>	<p>4. Patent Application number(s)</p> <p>11/105,849 Filed April 14, 2005</p> <p>Execution Date(s): <u>June 9, 2005, June 9, 2005, May 30, 2005, August 1, 2005, May 11, 2005 and May 10, 2005, respectively.</u></p>
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: Louis P. Herzberg Address: 3 Cloverdale Lane Monsey, New York 10592</p>	<p>6. Total number of applications involved: 1</p> <p>7. Total fee (37 CFR 3.41): \$40.00</p> <p><input checked="" type="checkbox"/> Charge to Deposit Account No.: <u>50-0510</u></p>
DO NOT USE THIS SPACE	
<p>8. Statement and signature.</p> <p>To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of original document.</p> <p><u>Louis P. Herzberg (Reg. No. 41,500)</u>  August 4, 2005 Name of Person Signing Signature Date</p> <p>Total Number of pages including cover sheet, attachments, and document: <u>7</u></p>	
DO NOT DETACH THIS PORTION	
<p>Mail documents to be recorded with required cover sheet information to:</p> <p align="center">Mail Stop Assignment Recordation Services Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450</p> <p>Public burden reporting for this sample cover sheet is estimated to average about 30 minutes per document to be recorded, including time for reviewing the document and gathering the data needed, and completing and reviewing the sample cover sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Office of Information Systems, PK2-1000C, Washington, DC 20231, and to the Office of Management and Budget, Paperwork Reduction Project (0651-0011), Washington, DC 20503.</p>	

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PATENT
REEL: 016611 FRAME: 0712

(IBM Docket) CH920030080US1

Page 1 of 2

Assignment

Whereas, we

INVENTOR AND CITY	(1) Rolf Allenspach	of Adliswil Switzerland
INVENTOR AND CITY	(2) Johannes G. Bednorz	of Wolfhausen Switzerland
INVENTOR AND CITY	(3) Gerhard Ingmar Meijer	of Zurich Switzerland
INVENTOR AND CITY	(4) Chung Hon Lam	of Peekskill New York
INVENTOR AND CITY	(5) Richard Stutz	of Dottikon Switzerland
INVENTOR AND CITY	(6) Daniel Widmer	of Langnau Switzerland

have invented certain improvements in
TITLE NON-VOLATILE RESISTANCE SWITCHING MEMORY

and executed, respectively, a United States patent application therefor on

DATES THAT INVENTORS SIGNED THE DECLARATION	(1) <i>June 8,</i> 2005, (2) <i>June 8,</i> 2005, (3) <i>May 30,</i> 2005, (4) <i>June 10,</i> 2005 (5) <i>May 11,</i> 2005 and (6) <i>May 10,</i>
--	--

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said applications to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

(IBM Docket) CH920030080US1

Signed and sealed

CITY AND DATE	(1) at Rueschlikon - on 9.6. 2005,	<u>Rolf Allenspach</u> SIGNATURE Rolf Allenspach FIRST NAME MIDDLE INITIAL LAST NAME
CITY AND DATE	(2) at Rueschlikon on 9.6.2005 2005,	<u>Johannes G. Bednorz</u> SIGNATURE Johannes G. Bednorz FIRST NAME MIDDLE INITIAL LAST NAME
CITY AND DATE	(3) at Rueschlikon on 30.5.2005 2005,	<u>Gerhard Ingmar Meijer</u> SIGNATURE Gerhard Ingmar Meijer FIRST NAME MIDDLE INITIAL LAST NAME
CITY AND DATE	(4) at on 2005,	_____ Chung Hon Lam FIRST NAME MIDDLE INITIAL LAST NAME
CITY AND DATE	(5) at Rueschlikon. on Mai 11. 2005 2005,	<u>R. Stutz</u> SIGNATURE Richard Stutz FIRST NAME MIDDLE INITIAL LAST NAME
CITY AND DATE	(6) at Rueschlikon on Mai 10, 2005,	<u>Daniel Widmer</u> SIGNATURE Daniel Widmer FIRST NAME MIDDLE INITIAL LAST NAME

Assignment

Whereas, we

INVENTOR AND CITY	(1) Rolf Allenspach	of Adliswil Switzerland
INVENTOR AND CITY	(2) Johannes G. Bednorz	of Wolfhausen Switzerland
INVENTOR AND CITY	(3) Ingmar Gerhard Meijer	of Zurich Switzerland
INVENTOR AND CITY	(4) Chung Hon Lam	of Peekskill New York
INVENTOR AND CITY	(5) Richard Stutz	of Dottikon Switzerland
INVENTOR AND CITY	(6) Daniel Widmer	of Langnau Switzerland

TITLE have invented certain improvements in
NON-VOLATILE RESISTANCE SWITCHING MEMORY

and executed, respectively, a United States patent application therefor on

DATES THAT	(1)	2005,	(2)	2005,
INVENTORS	(3)	2005,	(4)	2005
SIGNED THE DECLARATION	(5)	2005 and (6)		

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said applications to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

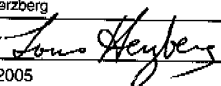
Signed and sealed

CITY AND DATE	(1) at on	2005,	_____	SIGNATURE
			Rolf	Allenspach
			FIRST NAME	MIDDLE INITIAL LAST NAME
CITY AND DATE	(2) at on	2005,	_____	SIGNATURE
			Johannes	G. Bednorz
			FIRST NAME	MIDDLE INITIAL LAST NAME
CITY AND DATE	(3) at on	2005,	_____	SIGNATURE
			Ingmar	Gerhard Meijer
			FIRST NAME	MIDDLE INITIAL LAST NAME
CITY AND DATE	(4) at <i>Yorktown Heights</i> on <i>Aug. 1st</i>	2005,	<i>Chung Hon Lam</i>	SIGNATURE
			Chung	Hon Lam
			FIRST NAME	MIDDLE INITIAL LAST NAME
CITY AND DATE	(5) at on	2005,	_____	SIGNATURE
			Richard	Stutz
			FIRST NAME	MIDDLE INITIAL LAST NAME
CITY AND DATE	(6) at on	2005,	_____	SIGNATURE
			Daniel	Widmer
			FIRST NAME	MIDDLE INITIAL LAST NAME

PTO/SB/122 (06-03)

Approved for use through 11/30/2005, OMB 0651-0095
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<p align="center">CHANGE OF CORRESPONDENCE ADDRESS Application</p> <p>Address to: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450.</p>		Application Number	11/105,849	
		Filing Date	4/14/05	
		First Named Inventor	Allenspach et al.	
		Art Unit	2812	
		Examiner Name	Not yet assigned	
		Attorney Docket Number	CH920030080US1	
Please change the Correspondence Address for the above-identified patent application to:				
XXX Customer Number: <u>54856</u>				
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<p>This form cannot be used to change the data associated with a Customer Number. To change the data associated with an existing Customer Number use "Request for Customer Number Data Change" (PTO/SB/124).</p> <p>I am the:</p> <p><input type="checkbox"/> Applicant/Inventor</p> <p><input type="checkbox"/> Assignee of record of the entire interest. Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).</p> <p><input checked="" type="checkbox"/> Attorney or Agent of record. Registration Number <u>41,500</u></p> <p><input type="checkbox"/> Registered practitioner named in the application transmittal letter in an application without an executed oath or declaration. See 37 CFR 1.33(a)(1). Registration Number _____</p>				
Typed or Printed Name <u>Louis P. Herzberg</u>				
Signature 				
Date <u>August 4, 2005</u>		Telephone <u>845-352-3194</u>		
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.				
*Total of _____ forms are submitted.				

This collection of information is required by 37 CFR 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

**PATENT
REEL: 016611 FRAME: 0717**

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Allenspach et al. Docket No.: CH920030080US1
Serial No.: 11/105,849 Group Art Unit: 2812
Filed: April 14, 2005 Confirmation No.: 3429
For: NON-VOLATILE RESISTANCE SWITCHING MEMORY


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PURSUANT TO 37 CFR 1.8**

I hereby certify that this Certification of Facsimile Transmission (1 page),
Recordation Form Cover Sheet (1 page), Assignment (4 pages) and Correspondence
Address are being facsimile transmitted under 37 CFR Rule 1.6(d) to the U.S. Patent
and Trademark Office ((571-273-0140)) on August 4, 2005. The Assignment and
Recordation Form are attached.

Please charge the \$40.00 recordation fee to our deposit account 50-0510.

PLEASE FAX CONFIRMATION TO 914-945-3281.


Allison Berkman
Telephone: 914-945-3862
Dedicated fax: 914-945-3281

IBM Corporation
Intellectual Property Law Dept.
P.O. Box 218
Yorktown Heights, New York 10598

RECORDED: 08/04/2005

**PATENT
REEL: 016611 FRAME: 0718**