PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

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<th>Execution Date</th>
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<tr>
<td>Michael C. Gaidis</td>
<td>03/21/2007</td>
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<tr>
<td>Lawrence A. Clevenger</td>
<td>03/22/2007</td>
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<tr>
<td>Timothy J. Dalton</td>
<td>03/21/2007</td>
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<td>John K. DeBrosse</td>
<td>03/26/2007</td>
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<td>Louis L.C. Hsu</td>
<td>03/20/2007</td>
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<td>Carl Radens</td>
<td>03/22/2007</td>
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<td>Keith Kwong-Hon Wong</td>
<td>03/21/2007</td>
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<tr>
<td>Chih-Chao Yang</td>
<td>03/23/2007</td>
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RECEIVING PARTY DATA

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<thead>
<tr>
<th>Name</th>
<th>International Business Machines Corporation</th>
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<td>Street Address</td>
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<td>City</td>
<td>Armonk</td>
</tr>
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PROPERTY NUMBERS Total: 1

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<tr>
<td>Application Number</td>
<td>11694183</td>
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CORRESPONDENCE DATA

Fax Number: (860)286-0115
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
Phone: 8602862929
Email: jhuston@cantorcolburn.com
Correspondent Name: Cantor Colburn LLP
Address Line 1: 55 Griffin Road South
Address Line 4: Bloomfield, CONNECTICUT 06002
<table>
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<tr>
<th>ATTORNEY DOCKET NUMBER:</th>
<th>YOR920060771US1</th>
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<tr>
<td>NAME OF SUBMITTER:</td>
<td>Sean F. Sullivan</td>
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ASSIGMENT

Whereas, we,

(1) Michael C. Gaidis of 5 Hiview Road, City of Wappingers Falls, County of Dutchess and State of New York 12590;

(2) Lawrence A. Clevegender of 90 Andrews Road, City of LaGrangeville, County of Dutchess and State of New York 12540;

(3) Timothy J. Dalton of 72 Sarah Bishop Road, City of Ridgefield, County of Fairfield and State of Connecticut 06877;

(4) John K. DeBrosse of 212 Buckingham Drive, City of Colchester, County of Chittenden and State of Vermont 05446;

(5) Louis L.C. Hsu of 7 Crosby Court, City of Fishkill, County of Dutchess and State of New York 12524;

(6) Carl Radens of 35 Kuchler Drive, City of LaGrangeville, County of Dutchess and State of New York 12540;

(7) Keith K.H. Wong of 42 Mina Drive, City of Wappingers Falls, County of Dutchess and State of New York 12590;

(8) Chih-Chao Yang of 29 Windham Hill Road, City of Glenmont, County of Albany and State of New York 12077;

have invented certain improvements in

HIGH DENSITY PLANAR MAGNETIC DOMAIN WALL MEMORY APPARATUS AND METHOD OF

FORMING THE SAME

and executed, respectively, a United States patent application therefore on (Dates Inventors Signed Declaration)

(1) March 8, 2007,

(2) March 1, 2007,

(3) March 21, 2007,

(4) March 2, 2007,

(5) March 7, 2007,

(6) March 15, 2007,

(7) March 22, 2007,


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 therefore;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I, 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 herein disclosed for the United States and foreign countries, and all rights of priority resulting from the filing of said United States application, and I request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in said application to IBM, its successors and assigns; and I hereby agree that IBM may apply for foreign Letters Patent on said invention and I will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.
IBM DOCKET NO. YOR920060771US1


Michael C. Gaidis

(2) Signed at __________________ on ______________, 2007.

Lawrence A. Clevenger


Timothy J. Dalton

(4) Signed at __________________ on ______________, 2007.

John K. DeBrosse

(5) Signed at __________________ on ______________, 2007.

Louis L.C. Hsu

(6) Signed at __________________ on ______________, 2007.

Carl Radens
(7) Signed at __________________ on __________________, 2007.

________________________________________
Keith K. H. Wong

(8) Signed at __________________ on __________________, 2007.

________________________________________
Chih-Chao Yang
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(2) 2007, (3) 2007,

(4) 2007, (5) 2007,

(6) 2007, (7) 2007 and

(8) 2007.

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Page 1 of 3
(1) Signed at ______________________ on __________________, 2007.

Michael C. Gaidis


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Timothy J. Dalton

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(1) _______________________________ 2007,
(2) _______________________________ 2007,
(4) March 26, 2007, (5) _______________________________ 2007,
(6) _______________________________ 2007, (7) _______________________________ 2007 and
(8) _______________________________ 2007.

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(1) Signed at __________________ on __________________, 2007.

Michael C. Gaidis

(2) Signed at __________________ on __________________, 2007.

Lawrence A. Clevenger

(3) Signed at __________________ on __________________, 2007.

Timothy J. Dalton

(4) Signed at Williston, VT on March 26, 2007.

John K. DeBrosse


Louis L.C. Hsu


Carl Radens

________________________________________
Keith K. H. Wong


________________________________________
Chih-Chao Yang
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Keith K. H. Wong

(8) Signed at _________________ on ________________, 2007.

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Chih-Chao Yang