

PATENT ASSIGNMENT

Electronic Version v07

Stylesheet Version v02

SUBMISSION TYPE:	NEW ASSIGNMENT	APPLICATION NUMBER 10/604165																	
NATURE OF CONVEYANCE:	ASSIGNMENT OF ASSIGNOR'S INTEREST																		
CONVEYING PARTY DATA																			
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:60%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Jason P. Gill</td> <td>2003-06-18</td> </tr> <tr> <td>David L. Harmon</td> <td>2003-06-18</td> </tr> <tr> <td>Deborah M. Massey</td> <td>2003-06-18</td> </tr> <tr> <td>Alvin W. Strong</td> <td>2003-06-18</td> </tr> <tr> <td>Timothy D. Sullivan</td> <td>2003-06-19</td> </tr> <tr> <td>Junichi Furukawa</td> <td>2003-06-19</td> </tr> </tbody> </table>						Name	Execution Date	Jason P. Gill	2003-06-18	David L. Harmon	2003-06-18	Deborah M. Massey	2003-06-18	Alvin W. Strong	2003-06-18	Timothy D. Sullivan	2003-06-19	Junichi Furukawa	2003-06-19
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RECEIVING PARTY DATA																			
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:16.6%;">Name</th> <th style="width:16.6%;">Street Address</th> <th style="width:16.6%;">Internal Address</th> <th style="width:16.6%;">City</th> <th style="width:16.6%;">State/Country</th> <th style="width:16.6%;">Postal Code</th> </tr> </thead> <tbody> <tr> <td>International Business Machines Corporation</td> <td>New Orchard Road</td> <td></td> <td>Armonk</td> <td>NEW YORK</td> <td>10504</td> </tr> </tbody> </table>						Name	Street Address	Internal Address	City	State/Country	Postal Code	International Business Machines Corporation	New Orchard Road		Armonk	NEW YORK	10504		
Name	Street Address	Internal Address	City	State/Country	Postal Code														
International Business Machines Corporation	New Orchard Road		Armonk	NEW YORK	10504														
CORRESPONDENCE DATA																			
<p>FAX NUMBER: 518-220-1857</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>When the customer number has been provided, the Office of Public Records will obtain the correspondence data from the official record on file at the USPTO.</p> <p>CUSTOMER NUMBER: 030449</p>																			
NAME OF PERSON SIGNING:		William D. Sabo /s/																	
DATE SIGNED:		2003-06-26																	
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CH \$40.00 090456 10604165

ASSIGNMENT

Whereas, We

(1) Jason P. Gill
County of Chittenden

City of Essex Junction
and State of Vermont

(2) David L. Harmon
County of Chittenden

City of Essex
and State of Vermont

(3) Deborah M. Massey
County of Chittenden

City of Jericho
and State of Vermont

(4) Alvin W. Strong
County of Chittenden

City of Essex Junction
and State of Vermont

(5) Timothy D. Sullivan
County of Chittenden

City of Underhill
and State of Vermont

(6) Junichi Furukawa
County of *Allegheny*

City of Pittsburgh
And State of Pennsylvania

have invented certain improvements in a:

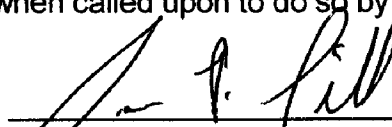
ENHANCEMENT OF PERFORMANCE OF A CONDUCTIVE WIRE IN A MULTILAYERED SUBSTRATE

Dates That	and executed, respectively, a United States patent application therefor on		
Inventors			
Signed the	(1) <i>6/18</i>	2003; (2) <i>6/18</i>	2003;
Declaration	(3) <i>6/18</i>	2003; (4) <i>6/18</i>	2003; and
	(5)	2003; (6) <i>6/19</i>	2003.

And 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.

(1) at *Essex Junction VT.*
on *6/18* 2003

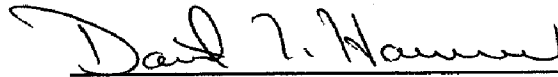


 (Jason P. Gill)
 First Name Middle Last Name

Signature
Inventor

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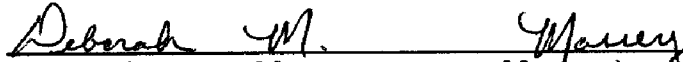
(2) at Essex Jct., VT
on 6/18 2003



(David L. Harmon)
First Name Middle Last Name

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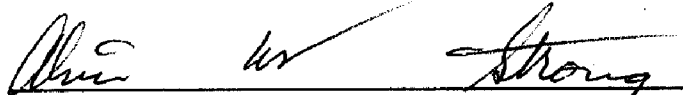
(3) at Essex Jct., VT
on 6/18 2003



(Deborah M. Massey)
First Name Middle Last Name

Signature
Inventor

(4) at Essex Jct., VT
on 6/18 2003



(Alvin W. Strong)
First Name Middle Last Name

Signature
Inventor

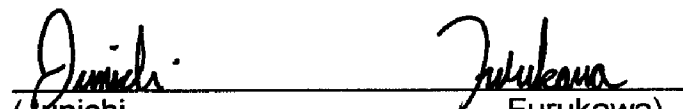
(5) at
on 2003



(Timothy D. Sullivan)
First Name Middle Last Name

Signature
Inventor

(5) at Pittsburgh, PA
on 6/14 2003



(Junichi Furukawa)
First Name Middle Last Name

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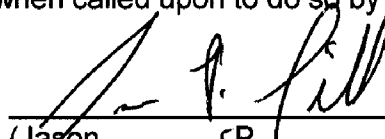
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Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention 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.

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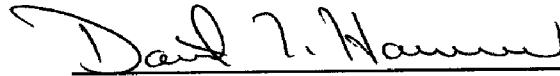


 (Jason P. Gill)
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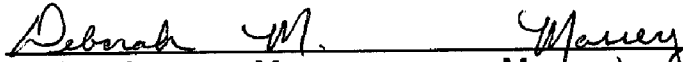
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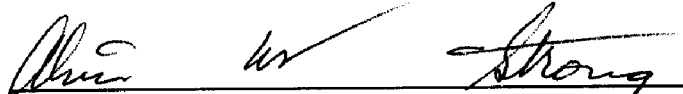
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(Deborah M. Massey)
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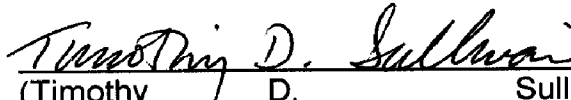
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First Name Middle Last Name

Signature
Inventor

(5) at Essex Jct., VT
on 6/19 2003



(Timothy D. Sullivan)
First Name Middle Last Name

Signature
Inventor

(5) at
on 2003

(Junichi Furukawa)
First Name Middle Last Name

Signature
Inventor