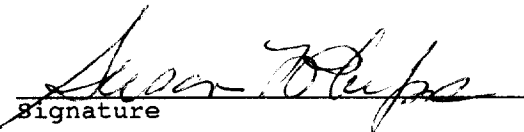
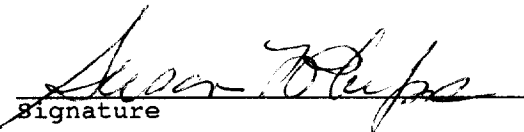
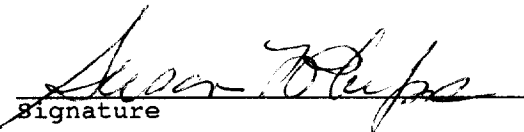


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[illegible]

U.S. Department of Commerce

RECORDATION FORM COVER SHEET - PATENTS ONLY

<p>1. Name of conveying party(ies):</p> <table style="width: 100%; border: none;"><tr><td style="width: 50%;">a) <u>Chin-Long Chen</u></td><td style="width: 50%;">g) _____</td></tr><tr><td>b) <u>Charles D. Holtz</u></td><td>h) _____</td></tr><tr><td>c) <u>Giacomo V. Ingenio</u></td><td>i) _____</td></tr><tr><td>d) <u>William W. Shen</u></td><td>j) _____</td></tr><tr><td>e) _____</td><td>k) _____</td></tr><tr><td>f) _____</td><td>l) _____</td></tr></table> <p style="text-align: right;">More names attached?    <u>   </u> Y <u>   </u> x <u>   </u> N</p>		a) <u>Chin-Long Chen</u>	g) _____	b) <u>Charles D. Holtz</u>	h) _____	c) <u>Giacomo V. Ingenio</u>	i) _____	d) <u>William W. Shen</u>	j) _____	e) _____	k) _____	f) _____	l) _____	<p>2. Name and address of receiving party(ies):</p> <p style="text-align: center;">Name: INTERNATIONAL BUSINESS           MACHINES CORPORATION</p> <p style="text-align: center;">Address: New Orchard Road           Armonk, NY 10504</p> <p style="text-align: right;">More names attached?    <u>   </u> Y <u>   </u> x <u>   </u> N</p>	
a) <u>Chin-Long Chen</u>	g) _____														
b) <u>Charles D. Holtz</u>	h) _____														
c) <u>Giacomo V. Ingenio</u>	i) _____														
d) <u>William W. Shen</u>	j) _____														
e) _____	k) _____														
f) _____	l) _____														
<p>3. Nature of Conveyance:    <u>   </u> x <u>   </u> Assignment</p>															
<p>4. Application number: 09/326,233    Filed: June 4, 1999</p> <p>Filed with new application:    <u>   </u> yes <u>   </u> x <u>   </u> no</p> <p>Execution date(s):    <u>                    </u></p> <table style="width: 100%; border: none;"><tr><td style="width: 50%;">a) <u>June 2, 1999</u></td><td style="width: 50%;">g) _____</td></tr><tr><td>b) <u>July 27, 1999</u></td><td>h) _____</td></tr><tr><td>c) <u>July 19, 1999</u></td><td>i) _____</td></tr><tr><td>d) <u>June 3, 1999</u></td><td>j) _____</td></tr><tr><td>e) _____</td><td>k) _____</td></tr><tr><td>f) _____</td><td>l) _____</td></tr></table> <p style="text-align: right;">Additional numbers attached?    <u>   </u> Y <u>   </u> x <u>   </u> N</p>				a) <u>June 2, 1999</u>	g) _____	b) <u>July 27, 1999</u>	h) _____	c) <u>July 19, 1999</u>	i) _____	d) <u>June 3, 1999</u>	j) _____	e) _____	k) _____	f) _____	l) _____
a) <u>June 2, 1999</u>	g) _____														
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d) <u>June 3, 1999</u>	j) _____														
e) _____	k) _____														
f) _____	l) _____														
<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p style="margin-left: 20px;">Name: Lynn L. Augspurger           IBM Corporation           Intellectual Property Law           522 South Road, M/S P386           Poughkeepsie NY 12601-5400</p>		<p>6. Total # of applications and patents involved:    <u>   </u> 01 <u>   </u></p> <p>7. Total fee (37 CFR 3.41):    \$ <u>   </u> 40.00 <u>   </u>.</p> <p>8. Charge to Deposit Account    09-0463.</p>													
<p>DO NOT USE THIS SPACE</p>															
<p>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.</p> <table style="width: 100%; border: none; margin-top: 20px;"><tr><td style="width: 30%;"><u>          Susan L. Phelps          </u></td><td style="width: 40%; text-align: center;"> Signature</td><td style="width: 30%; text-align: right;"><u>          08/09/99          </u> Date</td></tr></table>				<u>          Susan L. Phelps          </u>	 Signature	<u>          08/09/99          </u> Date									
<u>          Susan L. Phelps          </u>	 Signature	<u>          08/09/99          </u> Date													
<p>Total number of pages including cover sheet, attachments, and document:    <u>   </u> 3 <u>   </u></p>															
<p>Express Mail Label No. (if applicable):    _____    Docket No.:    PO9-98-169</p>															

**ASSIGNMENT**

Whereas, we,

(1) Chin-Long CHEN  
County of Dutchess

of Fishkill  
and State of New York

and  
(2) Charles D. HOLTZ  
County of Greene

of Catskill  
and State of New York

and  
(3) Giacomo V. INGENIO  
County of Dutchess

of Poughkeepsie  
and State of New York

and  
(4) William W. SHEN  
County of Dutchess

of Poughkeepsie  
and State of New York

have invented certain improvement in

**MEMORY CARD IDENTIFICATION SYSTEM**

and executed a United States patent application therefore on

(1) June 2, 1999; and (2) July 27, 1999; and  
(3) July 19, 1999; and (4) June 3, 1999.

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 therein 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.

(1) Signed at Poughkeepsie, NY

on 6-2, 1999.

Chin-Long Chen  
Chin-Long CHEN

(2) Signed at BOEBLINGEN, GERMANY  
~~Poughkeepsie, NY~~ CDA

on 27/7, 1999.

Charles D. Holtz  
Charles D. HOLTZ

(3) Signed at Poughkeepsie, NY

on 7/19, 1999.

Giacomo V. Ingenio  
Giacomo V. INGENIO

(4) Signed at Poughkeepsie, NY

on 6/3, 1999.

William W. Shen  
William W. SHEN