

PATENT ASSIGNMENT

Electronic Version v1.1

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>William Frank Micka</td><td>05/03/2004</td></tr><tr><td>Gail Andrea Spear</td><td>04/21/2004</td></tr><tr><td>Sam Clark Werner</td><td>04/23/2004</td></tr></tbody></table>	Name	Execution Date	William Frank Micka	05/03/2004	Gail Andrea Spear	04/21/2004	Sam Clark Werner	04/23/2004	
Name	Execution Date								
William Frank Micka	05/03/2004								
Gail Andrea Spear	04/21/2004								
Sam Clark Werner	04/23/2004								
RECEIVING PARTY DATA									
Name:	INTERNATIONAL BUSINESS MACHINES CORPORATION								
Street Address:	New Orchard Road								
City:	Armonk								
State/Country:	NEW YORK								
Postal Code:	10504								
PROPERTY NUMBERS Total: 1									
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>10838767</td></tr></tbody></table>	Property Type	Number	Application Number:	10838767					
Property Type	Number								
Application Number:	10838767								
CORRESPONDENCE DATA									
Fax Number: (801)531-1929 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
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Total Attachments: 1 source=Assignment#page1.tif									

CH \$40.00 10838767

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PATENT
REEL: 015006 FRAME: 0163

ASSIGNMENT

Whereas I/we

INVENTOR/CITY
COUNTY STATE(1) William Frank Micka City of Tucson
County of Pima State of Arizona(2) Gail Andrea Spear City of Tucson
County of Pima State of Arizona(3) Sam Clark Werner City of Tucson
County of Pima State of Arizona

have invented certain improvements in

TITLE

**APPARATUS, SYSTEM, AND METHOD FOR SYNCHRONIZING AN
ASYNCHRONOUS MIRROR VOLUME USING A SYNCHRONOUS MIRROR VOLUME**

and executed, respectively, a United States patent application therefor on the following date(s):

DATE(S) THAT
INVENTOR(S)
SIGNED THE
DECLARATION(1) May 3, 2004 (2) April 29, 2004
(3) April 23, 2004

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, 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 inventions 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.

Signed:

CITY
DATE(1) at Tucson
on 5/3/2004William Frank Micka
William Frank Micka(2) at Tucson
on 4-29-2004Gail Andrea Spear
Gail Andrea Spear(3) at Tucson
on 4-23-2004Sam Clark Werner
Sam Clark Werner**PATENT**