

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Allen Keith Bates</td> <td>07/19/2007</td> </tr> <tr> <td>Nils Haustein</td> <td>07/20/2007</td> </tr> <tr> <td>Craig Anthony Klein</td> <td>07/19/2007</td> </tr> <tr> <td>Daniel James Winarski</td> <td>07/19/2007</td> </tr> </tbody> </table>		Name	Execution Date	Allen Keith Bates	07/19/2007	Nils Haustein	07/20/2007	Craig Anthony Klein	07/19/2007	Daniel James Winarski	07/19/2007
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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" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11830373</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11830373						
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CORRESPONDENCE DATA											
Fax Number:	(520)792-3426										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	(520) 623-4353										
Email:	rmendez@chandlerudall.com										
Correspondent Name:	Dale F. Regelman										
Address Line 1:	4801 E. Broadway Blvd, #400										
Address Line 4:	Tucson, ARIZONA 85711-3609										
ATTORNEY DOCKET NUMBER:	TUC920060234US1										
NAME OF SUBMITTER:	Dale F. Regelman										

Total Attachments: 3
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**PATENT
 REEL: 019629 FRAME: 0517**

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A S S I G N M E N T

Docket No. TUC920060234US1

Page 1 of 1

Whereas, we

- (1) Allen Keith Bates of Tucson, County of Pima and State of Arizona, and
- (2) Nils Haustein of Soergenloch, Federal Republic of Germany, and
- (3) Craig Anthony Klein of Tucson, County of Pima and State of Arizona, and
- (4) Daniel James Winarski of Tucson, County of Pima and State of Arizona,

having invented certain improvements in

APPARATUS AND METHOD TO OPTIMIZE THE PERFORMANCE OF A HOLOGRAPHIC DATA STORAGE SYSTEM

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

- | | |
|------------------------|------------------|
| (1) <u>7-19</u> , 2007 | (2) _____, 2007 |
| (3) _____, 2007 | (4) _____, 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, as 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 in all 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 application 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 Tucson, AZ
on 7-19, 2007,

Allen Keith Bates
Allen Keith Bates

(2) at Mainz, Germany
on _____, 2007,

Nils Haustein

(3) at Tucson, AZ
on _____, 2007,

Craig Anthony Klein

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Daniel James Winarski

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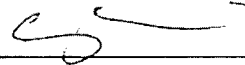
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