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Docket No. RP9-98-071

To the Assistant Commissioner of Patents: Please record the attached original documents or copy thereof.

Name of conveying party(ies):

Barbara Ballard Simon Chu Gayle Steinbuglar 2. Name and address of receiving party(ies):

> International Business Machines Corporation New Orchard Road Armonk, New York 10504



3. Nature of conveyance:

Med 12-21-89

X Assignment

Execution Date: 12/18/98; 12/16/98; 12/15/98

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is 12/18/98; 12/16/98; 12/15/98

A. Patent Application No.(s)

B. Patent No.(s)

5. Name and address of party to whom correspondence concerning document should be mailed:

Andrew J. Dillon

Felsman, Bradley, Gunter & Dillon, LLP Suite 350, Lakewood on the Park 7600B North Capital of Texas Highway Austin, TX 78731 (512) 343-6116

6. Total number of applications and patents involved: __1__

7. Total fee (37 CFR 3.41) \$ 40.00

Authorized to be charged to deposit account

8. IBM Corporation Deposit account number:

50-0563

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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.

Julianne M. Kohrs Name of Person Signing

anne Koru for Felsman, Bradley, Gunter & Dillon, LLP

Total number of pages including cover sheet: 3

PATENT REEL: 9672 FRAME: 0483

ASSIGNMENT

Whereas, I,

(1) Barbara Ballard County of Wake

of Raleigh, and State of North Carolina .

have invented certain improvements in

METHOD AND SYSTEM FOR MANAGING A DATA STORAGE SYSTEM

and executed, respectively, a United States patent application therefor on (Dates Inventors Signed Declaration) (1) 12/1/8, 1998.

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 invention 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) Signed at RTP, NC on 12

Barbara Ballard

PATENT **REEL: 9672 FRAME: 0484**

ASSIGNMENT

Whereas, we,

(1) <u>Simon Chu</u> County of <u>Orange</u> of <u>Chapel Hill</u>, and State of <u>North Carolina</u>,

and

(2) <u>Gayle Steinbugler</u> County of <u>Wake</u> of <u>Raleigh</u>, and State of <u>North Carolina</u>,

have invented certain improvements in

METHOD AND SYSTEM FOR MANAGING A DATA STORAGE SYSTEM

(Dates Inventors Signed Declaration) (1) 1998, and (2) 1998.	and executed,	respectively, a	United States	patent applic	ation therefor on
(2) 12 / 15 , 1998.	(Dates Invent	ors Signed Declar	ration) (1)	12/1/	, 19 <u>98</u> , and
	(2) 121	, 19 <u>98</u>	<u></u>	77.6	

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 invention 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) Signed at RTP NC on 1916, 1998.
Simon Chu

and (2) Signed at 27000 on 12/15, 1998.

Skyle Stembugler

Gayle Steinbugler

PATENT
RECORDED: 12/21/1998 REEL: 9672 FRAME: 0485