R SHEET

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101128000

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

1. Name(s) of conveying party:

Shah Mohammed Rezaul Islam Vikram Harakere Krishnamurthy Prasenjit Sarkar

2. Name and address of receiving party:

International Business Machines Corporation New Orchard Road Armonk, NY 10504

3. Nature of conveyance: Assignment

Execution Date: (1) July 14, 1999 (2) August 9, 1999 (3) August 4, 1999

4. Application number:

Docket No.:

AM9-99-052

If this Assignment is being filed together with a new application, enter the execution date of the application (date Declaration signed): (1) July 14, 1999 (2) August 9, 1999 (3) August 4, 1999

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

John L. Rogitz Rogitz & Associates 750 B Street, Suite 3120 San Diego, CA 92101

- 6. Total number of applications involved:
- 7. Total fee (37 CFR 3.41) = \$40.00

04/25/1999 BC00TES 00000151 090441 09376A32

8. Charge fee to Deposit Account No. 09-0441

01 FC:581	40.00 CH	DO NOT USE THIS SP	PACE		
9. State	ement and sign	ature:			
	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.				
<u>John</u> Atto i	L. Rogitz	Ch M	\$112/99		

State of North Carolina

ASSIGNMENT

County of Wake

Whereas, we,

City of Cary

(1)

SHAH MOHAMMED REZAUL ISLAM

	VIKRAM HARAKERE KRISHNAMURTHY City of Durham	County of Durham	State of North Carolina
(3)	PRASENJIT SARKAR City of San Jose	County of Santa Clara	State of California
have inver	ted certain improvements in (Title of Invention).		
	SYSTEM AND METHOD FOR CONCU	RRENT DISTRIBUTED SNAP	SHOT MANAGEMENT
and execu	ted a Declaration and Power of Attorney for a United States pa	Intent application therefor on	
(1) (3)	July 14, 1999 August 4, 1999	(2)	
	Whereas, INTERNATIONAL BUSINESS MACHINES CORP	ORATION, a corporation of New York, b	aving a place of business at Armonk, New
York 105	04 (hereinafter called IBM), desires to acquire the entire t	right, title and interest in the said appli	cation and invention, and to any United
States ar	d foreign patents to be obtained therefor;		
	Now therefore, for a valuable consideration, receipt wh	nereof is hereby acknowledged, we, the	above named, hereby sell, assign, and
	to IBM, its successors and assigns, the entire right, title	••	
States an	d foreign couptries, and all rights of priority resulting tro		
D-44- 4			cation, and we request the Commissioner of
	o issue any Letters Patent granted upon the inventions se	et forth in said application to IBM, its s	uccessors and assigns; and we hereby agree
that IBM	o issue any Letters Patent granted upon the inventions so may apply for foreign Letters Patent on said invention ar	et forth in said application to IBM, its s	uccessors and assigns; and we hereby agree
that IBM foreign a	o issue any Letters Patent granted upon the inventions se	et forth in said application to IBM, its s	uccessors and assigns; and we hereby agree
that IBM foreign a	o issue any Letters Patent granted upon the inventions so may apply for foreign Letters Patent on said invention an oplications when called upon to do so by IBM. In by Inventors Inventor: SHAH MOHAMMED REZ	et forth in said application to IBM, its sond we will execute all papers necessary	uccessors and assigns; and we hereby agree in connection with the United States and
that IBM foreign a Execution	o issue any Letters Patent granted upon the inventions so may apply for foreign Letters Patent on said invention an oplications when called upon to do so by IBM. In by Inventors	et forth in said application to IBM, its sond we will execute all papers necessary	uccessors and assigns; and we hereby agree in connection with the United States and
that IBM foreign a Execution	o issue any Letters Patent granted upon the inventions so may apply for foreign Letters Patent on said invention an oplications when called upon to do so by IBM. In by Inventors Inventor: SHAH MOHAMMED REZ	et forth in said application to IBM, its sond we will execute all papers necessary AUL ISLAM Lyoul Man	uccessors and assigns; and we hereby agree in connection with the United States and City/State: RTP_{s} NC
that IBM foreign a Execution (1)	o issue any Letters Patent granted upon the inventions so may apply for foreign Letters Patent on said invention an opplications when called upon to do so by IBM. In by Inventors Inventor: SHAH MOHAMMED REZ	AUL ISLAM LYOUL JUM ISHNAMURTHY	uccessors and assigns; and we hereby agree in connection with the United States and City/State: RTP_s , NC Dated: $H/4/99$
that IBM foreign a Execution (1)	o issue any Letters Patent granted upon the inventions so may apply for foreign Letters Patent on said invention an opplications when called upon to do so by IBM. In by Inventors Inventor: SHAH MOHAMMED REZ Signature Linventor: VIKRAM HARAKERE KR	AUL ISLAM LYOUL JUM ISHNAMURTHY	uccessors and assigns; and we hereby agree in connection with the United States and City/State: RTP_{s} NC Dated: $\frac{14/99}{City/State}$:
that IBM foreign a Execution (1)	o issue any Letters Patent granted upon the inventions so may apply for foreign Letters Patent on said invention an opplications when called upon to do so by IBM. In by Inventors Inventor: SHAH MOHAMMED REZ Signature Linventor: VIKRAM HARAKERE KR	AUL ISLAM LAUL ISLAM LISHNAMURTHY	uccessors and assigns; and we hereby agree in connection with the United States and City/State: RTP_{s} NC Dated: $\frac{14/99}{City/State}$:

ASSIGNMENT

Whereas, we,

(1)	SHAH MOHAMMED REZAUL IS City of Cary	LAM County of Wake	State of North Carolina
(2)	VIKRAM HARAKERE KRISHNA City of Durham	MURTHY County of Durham	State of North Carolina
(3)	PRASENJIT SARKAR City of San Jose	County of Santa Clara	State of California
have inve	ented certain improvements in (Title of Invention).		
	SYSTEM AND METHOD FOR CO	ONCURRENT DISTR NAGEMENT	BUTED SNAPSHOT
and exec	cuted a Declaration and Power of Attorney for a Ur	nited States patent application th	nerefor on
(1) (3)		(2) Augus	st 9, 1999
hereby s applicati from the granted IBM may the Unite	s at Armonk, New York 10504 (hereinafter calle blication and invention, and to any United State Now therefore, for a valuable consideration, resell, assign, and transfer to IBM, its successors ion and invention therein disclosed for the United States application, and we upon the inventions set forth in said application, apply for foreign Letters Patent on said invented States and foreign applications when called ion by Inventors	s and foreign patents to be obsectively ackross and assigns, the entire right, ted States and foreign countries request the Commissioner on to IBM, its successors and tion and we will execute all paupon to do so by IBM.	btained therefor; nowledged, we, the above named, title and interest in the said ies, and all rights of priority resulting of Patents to issue any Letters Patent assigns; and we hereby agree that apers necessary in connection with
(1)	Inventor: SHAH MOHAMMED REZA		City/State:
(0)	Signature		ON TOWN TA
(2)	Signature Signature		City/State: Bangalore, INDIA
(3)	Inventor: PRASENJIT SARKAR		City/State:

PATENT REEL: 010183 FRAME: 0413