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(Rev. 6-93)	Patent and Trademark Office		
OMB N. 0651-0011 (exp. 4/94) PATENT	TS ONLY		
To the Honorable Commissioner of Patents and documents or copy thereof.	Trademarks: Please record the attached original		
Name of conveying party(ies): Paul E. McKenney, Orran Y. Krieger, Jonathan Appavoo and Dipankar Sarma Additional name(s) of conveying party(ies) attached? Yes _x_No	Name and address of receiving party(ies): Name: <u>International Business Machines</u> Corporation Internal Address:		
Assignment Merger Security Agreement Change of Name Other Execution Date: 10/4/04,10/21/04 and 10/20/04	Street Address: New Orchard Road City: Armonk State: NY Zip:: 10504 Country: USA Additional name(s) & address(es) attached? Yes x No		
 4. Application number(s) or patent number(s): If this document is being filed together with a new a A. Patent Application No (s) 10/974,515 	B. Patent No.(s)		
Additional numbers att	ached?Yes x No		
 Name and address of party to whom correspondence concerning document should be mailed: 	Total number of applications and patents involved:1		
Name: Walter W. Duft Internal Address: Same as below	7. Total fee (37 C.F.R. 3.41)\$ 40.00 Enclosed Authorized to be charged to deposit account		
Street Address: <u>8616 Main Street, Suite 2</u> City: <u>Williamsville</u> State: <u>New York</u> Zip: <u>14221</u>	8. Deposit account number: 501336 (Attached duplicate copy of this page if paying by deposit account)		
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PATENT

700144276

REEL: 015570 FRAME: 0932

Docket: BEA920040020US1

INVENTOR AND CITY

DATE

Whereas, We

- (1) Paul E. McKenney County of Washington
- (2) Orran Y. Krieger County of Middlesex
- (3) Jonathan Appavoo -County of Westchester

and

(3) Dipankar Sarma

of Beaverton, and State of Oregon,

of Newton,

and State of Massachusetts,

of White Plains,

and State of New York,

of Bangalore, Karnataka, India,

have invented certain improvements in

READ	-COPY UPDATE SYSTEM AND METHOD	
DATES THAT INVENTOR(S)	and executed, respectively, a United States patent applicat	
SIGNED THE APPLICATION	(2/	, 2004,
APPDICATION.	(3), 2004, (4)	, 2004.
	Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, New York, having a place of business at Armonk, New York 10 called IBM), desires to acquire the entire right, title and said application and invention, and to any United States and to be obtained therefor;	504, (hareinafter interest in the
	Now therefore, for a valuable consideration, receipt w	hereof is hereby
	acknowledged, I, the above named, hereby sell, assign, and its successors and assigns, the entire right, title and intapplication and invention therein disclosed for the United countries, and all rights of priority resulting from the fi States application, and I request the Commissioner of Paten	transfer to IBM, erest in the said States and foreign ling of said Unite
	Letters Patent granted upon the inventions set forth in sai	d application to
	IBM, its successors and assigns; and I hereby agree that IB foreign Letters Patent on said invention and I will execute	M may apply for all mapers
	necessary in connection with the United States and foreign	applications when
	dalled upon to do so by IBM.	
Signe	d and sealed	
CITY	(1) at BEAVERTON, DR USA Tax Z. IVC LOSSIE	SIGNATURE INVENTOR
DATE	on OCTOBER 4 2004,	ナ
		-
CITY	(2) at Orran Y. Krieger	signature inventor
DATE	on, 2004,	

01/10/2005 11:43

716-633-1932

WALTER W DUFT

PAGE 04

ASSIGNMENT

Docket: BEA920040020US1

Docket: BEA920040020US1

INVENTOR AND CITY

Whereas, We

- (1) Paul E. McKenney County of Washington
- (2) Orran Y. Krieger County of Middlesex
- (3) Jonathan Appavoo County of Westchester

and

(3) Dipankar Sarma

of Beaverton, and State of Oregon,

of Newton, and State of Massachusetts,

of White Plains, and State of New York,

of Bangalore, Kernataka, India,

have invented certain improvements in

READ-COPY UPDATE SYSTEM AND METHOD

			•						
	and	executed,	respectively,	a United	States	patent	application	therefor	¢n
INVENTOR(S) SIGNED THE APPLICATION	(1)	<u> </u>		2004, (2) <u></u>	Out.	2/	, 2004,	
	(3)			2004, (4) <u></u>		· <u> </u>	, 2004.	
	New	Whereas, York, hav:	INTERNATIONAL ing a place of	BUSINESS business	MACHIN at Aim	ES CORPO	ORATION, a ec	rporation (hereina	ı ç

new fork, having a place of business at Almonk, New folk 1050%, (helefinefter 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 adknowledged. I, the above named, hereby sell, assign, and transfer to IBM,

Now therefore, for a valuable consideration, receipt whereof is hereby adknowledged. 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 and sealed

7	anen min neminn		
CITY	(1) at	Paul E. McKenney	SIGNATURE INVENTOR
DATE	on, 2004,		
CITY	(2) at Newton	Orkan X. Krieger	SIGNATURE INVENTOR
03.00	on Oct 21 2004		

Docket: BEA920040020US1

CITY	(3) at	Jonathan Appavoo	SIGNATURE INVENTOR
DATE	on, 2004,		
CITY	(4) at	Dipankar Sarma	SIGNATURE INVENTOR
DATE	on, 2004,		4

Docket: BEA920040020US1

Whereas, we

INVENTOR AND CITY

(1) Paul E. McKenney County of Washington

(2) Orran Y. Krieger County of Middlesex

(3) Jonathan Appavoo County of Westchester of Beaverton, and State of Oregon,

of Newton, and State of Massachusetts,

of White Plains, and State of New York,

	and	•			
	(3) Dipankar Sam	na.	of Bangalo	ore, Karnataka,	India,
	have invented car	rtain improve	ments in		
READ	-COPY UPDATE SY	STEM AND MI	ethod		
DATES THAT INVENTOR(S)	and executed, res	spectively, a	United States patent a	pplication ther	efor on
SIGNED THE	(1)	, 20	004, (2)		2004,
WAS A PROPERTY OF	(3)	, 2 0	10/20		2004.
	New York, having called IBM), desi said application to be obtained the Now therefor acknowledged, I, its successors an application and i countries, and all States application Letters Patent grief, its successor foreign Letters Patent grief.	a place of bures to acquir and invention erefor; e, for a valu the above nam d assigns, the nvention ther l rights of p n, and I requ anted upon the rs and assign atent on said	USINESS MACHINES CORPOR ISINESS at Armonk, New is the entire right, tile, and to any United Stable consideration, read, hereby sell, assign entire right, title is disclosed for the riority resulting from est the Commissioner of inventions set forth invention and I will	York 10504, (her tle and interest ates and foreign ceipt whereof is n, and transfer and interest in United States are the filing of s In said application and applications all many appressions all many appressions.)	reinafter t in the n patents thereby to IBM, the said nd foreign said United sue any thion to only for
	necessary in conn- called upon to do	ection with t	he United States and fo	oreign applicati	ons when
Signed	and sealed				
CITY	(1) at		Faul E. McKennev		GNATURE VENTOR
DATE	ou	, 2004,	radi 2. Mexemmey	IN	VENTOR
CITY	(2) at	· · · · · · · · · · · · · · · · · · ·	Orran Y. Krieger		GNATURE VENTOR
DATE	on	2004.	Arron I. Witahal	, 11	VEHTOR
		•			

PATENT

REEL: 015570 FRAME: 0937

Docket: BEA920040020US1

CITY (3) at Jonathan Appavoc INVENTOR DATE 2004, CITY SIGNATURE Dipankar Sarma INVENTOR DATE

PATENT

ASSIGNMENT Docket: BEA920040020US1 Whereas, We INVENTOR AND CITY (1) Paul E. McKenney of Beaverton, County of Washington and State of Oregon, (2) Orran Y, Krieger of Newton, County of Middlesex and State of Massachusetts, (3) Jonathan Appavoo of White Plains, County of Westchester and State of New York. and (3) Dipankar Sarma of Bangalore, Karnataka, India, have invented certain improvements in READ-COPY UPDATE SYSTEM AND METHOD and executed, respectively, a United States patent application therefor on DATES THAT INVENTOR (S) SIGNED THE . 2004, (2) APPLICATION , 2005, (4) ______, 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 and sealed CITY SIGNATURE Paul E. McKenney INVENTOR DATE CITY SIGNATURE Orran Y. Krieger INVENTOR DATE

(3) at

on _

Dipankar Sarma

Docket: REA920040020US1

ASSIGNMENT

White Plains: Jonathan Apprivoo

2005,

SIGNATURE

CITY

CITY

DATE

(4) at

SIGNATURE INVENTOR

DATE

2004,

January 7th