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3. Nature of Conveyance: <u>x</u> Assignment 4. Application number: <u>Filed:</u> 09532638 Filed with new application: <u>x</u> yesno 09532638 Execution date(s): a) <u>March 15, 2000</u> (g) b) c) 1) e) k) f) Additional numbers attached? <u>Y x N</u> 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Floyd A. Gonzalez IBM Corporation Intellectual Property Law 2455 South Road, M/S 9366 Poughkeepsie NY 12601 DO NOT USE THIS SPACE 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. <u>Susan L. Nelson</u> <u>Jungan</u> <u>J</u>	a) Marcos N. Novaes	a)		party(ies) Name: II	: NTERNATIONAL BUS ACHINES CORPORAT : New Orchard Ro	INESS ION ad
3. Nature of Conveyance: <u>x</u> Assignment 4. Application number: <u>Filed:</u> 09532638 Filed with new application: <u>x</u> yesno 09532638 Execution date(s): <u>a) March 15, 2000</u> <u>g)</u> <u>b)1</u> <u>c)1</u> <u>d)5</u> <u>e)1</u> <u>hd</u> <u>f)1</u> Additional numbers attached? <u>Y x N</u> 5. Name and address of party to whom correspondence concerning document should be mailed: Name: Floyd A. Gonzalez IBM Corporation Intellectual Property Law 2455 South Road, M/S 9366 Poughkeepsie NY 12601 DO NOT USE THIS SPACE 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. <u>Susan L. Nelson</u> <u>Juy(dy</u> <u>Juf(y)</u> <u>03/21/00</u> Signature Total number of pages including cover sheet, attachments, and document: <u>2</u> <u>rame</u> <u>2</u> <u>rame</u> <u>rame</u> <u>2</u> <u>rame</u> <u>rame</u> <u>2</u> <u>rame</u> <u>rame</u> <u>ram</u>					s attached?Y	<u>N</u>
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concerning document should be mailed: Name: Floyd A. Gonzalez IBM Corporation Intellectual Property Law 2455 South Road, M/S P386 Poughkeepsie NY 12601 patents involved: 01 7. Total fee (37 CFR 3.41): \$_40.00 . 8. Charge to Deposit Account 09-0463. 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. Susan L. Nelson Signature Total number of pages including cover sheet, attachments, and document: 2	b) c) d) e) f)	n)i) j) k) l)				
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PATENT REEL: 010694 FRAME: 0405

ASSIGNMENT

Whereas, I

Inventor	Marcos N.	Novaes	of Hopewell Junction
	County of	Dutchess	and State of New York,

have invented certain improvements in METHOD AND APPARATUS FOR BUILDING A MEDIUM COST, SELF SIMILAR, SELF ORGANIZING MULTICAST ROUTING TREE

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

March 15, 2000 (1)

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, and, 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 and Trademarks 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.

Signed

(1)Poughkeepsie, NY at on March 15, 2000

Marcos N. Novaes