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Form PTO-1595



U.S. Department of Commerce

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PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks. Please record the attached original documents or copy thereof.

 9-655 U.S. PTO
 09/532638

03/21/00

1. Name of conveying party(ies): a) <u>Marcos N. Novaes</u> g) _____ b) _____ h) _____ c) _____ i) _____ d) _____ j) _____ e) _____ k) _____ f) _____ l) _____ More names attached? <u> </u> Y <u> </u> X N		2. Name and address of receiving party(ies): Name: INTERNATIONAL BUSINESS MACHINES CORPORATION Address: New Orchard Road Armonk, NY 10504 More names attached? <u> </u> Y <u> </u> X N	
3. Nature of Conveyance: <u> </u> X Assignment			
4. Application number: Filed: <u>09532638</u> Filed with new application: <u> </u> X yes <u> </u> no Execution date(s): a) <u>March 15, 2000</u> g) _____ b) _____ h) _____ c) _____ i) _____ d) _____ j) _____ e) _____ k) _____ f) _____ l) _____ Additional numbers attached? <u> </u> Y <u> </u> X N			
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <u>Floyd A. Gonzalez</u> <u>IBM Corporation</u> <u>Intellectual Property Law</u> <u>2455 South Road, M/S P386</u> <u>Poughkeepsie NY 12601</u>		6. Total # of applications and patents involved: <u>01</u> 7. Total fee (37 CFR 3.41): <u>\$ 40.00</u> 8. Charge to Deposit Account <u>09-0463.</u>	
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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. <div style="display: flex; justify-content: space-between;"> <div> <u>Susan L. Nelson</u> _____ Signature </div> <div> _____ Signature </div> <div> <u>03/21/00</u> _____ Date </div> </div>			
Total number of pages including cover sheet, attachments, and document: <u>2</u>			
04/18/2000 ITOM11 00000210 090463 09532638 01 FC:581 (40.00 CH Express Mail Label No. (if applicable): <u>EK350348715US</u> Docket No.: <u>POU000024US1</u>			

 PATENT
 REEL: 010694 FRAME: 0405

A S S I G N M E N T

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

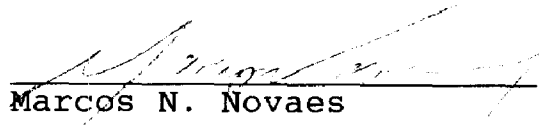
(1) March 15, 2000

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) at Poughkeepsie, NY
 on March 15, 2000


Marcos N. Novaes