

08-02-2001

FORM PTO-1595 (Substitute)

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5. Name and address of party to whom correspondence concerning document should be mailed:  
Name: Stanley D. Ference III  
FERENCE & ASSOCIATES  
Address: 129 Oakhurst Road  
City: Pittsburgh State: PA Zip: 15215

6. Total number of applications and patents involved: 1  
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PATENT  
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09/906938  
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# Assignment

Whereas, I

INVENTOR  
AND CITY

Marcos N. Novaes  
County of Dutchess

of Hopewell Junction,  
and State of New York

TITLE

have invented certain improvements in  
METHODS AND ARRANGEMENTS FOR MULTICASTING A DATA STREAM AT  
DIFFERENT DATA RATES TO GROUPS OF SUBSCRIBERS

executed, respectively, a United States patent application therefor on even date herewith.

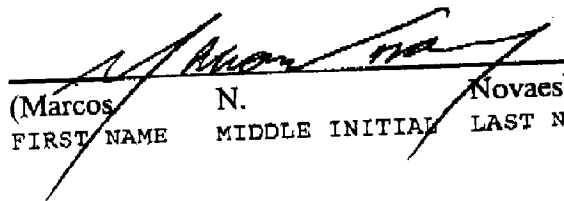
Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents 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 applications 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 AND  
DATE

at Hawthorne  
on *July 6*, 2001,



(Marcos N. Novaes)  
FIRST NAME MIDDLE INITIAL LAST NAME

SIGNATURE  
INVENTOR