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100911477 , the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. Name and address of receiving party(ies): 1. Name of conveying party(ies): International Business Machines Corporation John Stuart Beeteson New Orchard Road Armonk New York 10504 3. Name of conveyance: X Assignment **Execution Date:** 28 September 1998 Application number(s) or patent number(s): 4. If this document is being filed together with a new application, the execution date of the application is 28 September 1998 B. Patent No(s) A. Patent Application No(s) 5. Name and address of party to whom 6. Total number of applications and patents involved: 1 correspondence concerning document should be mailed: 7. Total fee (37 CFR 3.41) \$ 40.00 David M. Shofi IBM Corp, IP Law Dept, X Authorized to be charged to deposit account T J Watson Research Center, PO Box 218, 8. Deposit Account Number: Yorktown Heights, New York 10598. Telephone: (914) 945-3247 09-0468 (Attach duplicate copy of this page if paying by deposit account) 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. David M. Shofi Name of person signing Reg. No. 39,835 Total number of pages including cover sheet: Do not detach this portion

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PATENT REEL: 9610 FRAME: 0956

Docket No: UK9-98-078

ASSIGNMENT

Whereas, I,

John Stuart Beeteson County of Ayrshire

and State of

of City Scotland

Skelmorlie

have invented certain improvements in

MAGNETIC CHANNEL CATHODE

and executed, a United States patent application therefor on 28 Sentenkes (998

Whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at New Orchard Road, 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 invention 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.

John S Beeteson

Signed at / Cown where signed) on 18th Sept., 1918

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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 invention 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.

John S Beeteson

Signed at /Keno-h on 28tt Sept., 19/8

RECORDED: 11/23/1998

PATENT REEL: 9610 FRAME: 0958