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To the Hon. Commissioner of Patents & Trademarks: Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): 2. Name and address of receiving party(ies): Hiro KARUBE Name: NEC CORPORATION Additional name(s) of conveying party(les) attached? [] Yes [X] No Street Address: 3. Nature of conveyance: 7-1, Shiba 5-chome Minato-ku [X] Assignment [] Merger Tokyo, Japan I | Security Agreement [] Change of Name []Other Execution Date: June 12,1 998 4. Application number(s) or patent (numbers): If this document is being filed together with a new application, the execution date of the application is: June 12, 1998 A. Patent Application No(s). B. Patent No(s). Additional numbers attached? [] Yes [X] No 5. Name and address of party to whom corre-6. Total number of applications and patents spondence concerning document should involved: be mailed: One 7. Total fee (37 CFR 3.41).....\$ 40 YOUNG & THOMPSON [X] Enclosed Second Floor I I Authorized to be charged to de-745 South 23rd Street posit Arlington, VA 22202 account 8. Deposit Account No. 25-0120 (Attach duplicate copy of this page if paying by deposit ac-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. Lauren Terry Name of Person Signing Signature Total number of pages including cover sheet: [2]

06/29/1996 LSHEED 00000107 09102639 02 FC:581 40.00 0

> PATENT REEL: 9268 FRAME: 0168

ASSIGNMENT

		WHEREAS, Hiro_Karube_of_Tokyo,_Japan
		invented certain new and useful improvements inHEAD_POSITION_SIGNAL
		MODULATOR AND HEAD POSITIONING UNIT USING THE DEMODULATOR
		hichI.am_about_to_makeapplication for Letters (I/we have made—or am/are about to make)
	Pater	nt of the United States of America;
		AND WHEREAS, NEC Corporation, 7-1, Shiba 5-chome,
		Minato-ku. Tokyo. Japan is
	desir	ous of acquiring an interest therein and in the Letters Patent to be obtained therefor from the
	Unite	ed States;
		NOW THEREFORE, be it known by all whom it may concern, that for and in consideration of
		QueDollars (\$l_QQ)
		mein hand paid, the receipt of which is hereby acknowledgedthesaid_ASSIGNOR
		assigned, sold, and set over, and by these presents do hereby assign, sell, and set over unto the said
		ASSIGNEE, NEC Corporation
		the full and exclusive right, title, and interest in and to the said invention,
		lly set forth and described in the:
elete	a. 10	(a) specification prepared and executed byme on the _12TH _ day of _June, 19.98,
	cable g	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
	prep	aratory to obtaining Letters Patent therefor; said invention, application and Letters Patent to be
		and enjoyed by the said ASSIGNEE, NEG Corporation
		their_ own use and behoof, and for _their legal representatives, to the full end of the term
		which said Letters Patent are granted, as fully and entirely as the same would have been held by
		ne had this assignment and sale not been made.
		_
		IN TESTIMONY WHEREOF, _ L hereunto set _my hand and affix _my seal at this12th day of June, A.D. 19 _98
		this 12th day of June, A.D. 19 98 (Liwentor's full Signature)
	Witi	Marazenni Takanolus

PATENT
RECORD OF COME and Activitive right, or what part of the without interest of Seasing Record ME: 0169