1. Name of conveying party(ies) Shigeo OHASHI, Noriyuki ASHIWAKE, Takashi NaGANAWA, Makoto KITANO, Rintaro MiNAMITANI, Yoshihiro KONDO. Tsuyoshi NAKAGAWA Additional name(x) of conveying party(ies) arached?	FORM PTO-1595 1-31-92 08 - 31 - 2001	ER SHEET U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office Y
Single Orlean, Name: Hitachi, Ltd. Name: Hitachi, Ltd. Street Address: 6, Kanda Surugadai 4-chome, Chiyoda-ku Street Address: 6, Kanda Surugadai 4-chome, Chiyoda-ku Additional name(s) of conveying party(ies) attached?	To the Honorable Commissioner o	ne attached original documents or copy thereof.
3. Nature of conveyance: Assignment	Takashi NAGANAWA, Makoto KITANO, Rintaro MINAMITANI, Yoshihiro KONDO,	Name: Hitachi, Ltd.
Additional numbers of party to whom correspondence concerning document should be mailed: Name: ANTONELLI, TERRY, STOUT & KRAUS, LLP Internal Address: 1300 North Seventeenth Street Suite 1800 State: VA Zip: 22209 DO NOT USE THIS SPACE Additional same (s) guaranteed August 23, 2001 Additional number: 01-2135 (Attach duplicatic copy of this page if paying by deposit account) Date August 23, 2001 Date Date	Additional name(s) of conveying party(ies) attached? Yes No	4 S
If this document is being filed together with a new application, the execution date of the application is: July 23, 2001 A. Patent Application No.(s) B. Patent No.(s) B. Patent No.(s) B. Patent No.(s) B. Patent No.(s) B. Patent No.(s) B. Patent No.(s) Comparison of the content of the application is: July 23, 2001 B. Patent No.(s) B. Patent No.(s) Comparison of the content of the application is: July 23, 2001 Comparison of the content of the application is: July 23, 2001 Comparison of the content of the application is: July 23, 2001 Comparison of the content of the application is: July 23, 2001 Comparison of the content of the application is: July 23, 2001 Comparison of the content of the application is: July 23, 2001 Comparison of the content of the application is: July 23, 2001 Comparison of the content of the application is: July 23, 2001 Comparison of the content of the application is: July 23, 2001 Comparison of the content of the application is: July 23, 2001 Comparison of the content of the application is: July 23, 2001 Comparison of the content of the application is: July 23, 2001 Comparison of the content of the application is: July 23, 2001 Comparison of the content of the application is: July 23, 2001 Comparison of the content of the application is: July 23, 2001 Comparison of the application is: July 23, 2001	Assignment	Country: Japan 09 934594
A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached? Yes No 5. Name and address of party to whom correspondence concerning document should be mailed: Name: ANTONELLI, TERRY, STOUT & KRAUS, LLP Internal Address: Enclosed Any deficiencies may be charged to deposit account Authorized to be charged to deposit account Authorized to be charged to deposit account	4. Application number(s) or patent number(s):	
Additional numbers attached?		
Name: ANTONELLI, TERRY, STOUT & KRAUS, LLP Internal Address: Street Address: 1300 North Seventeenth Street Suite 1800 City: Arlington State: VA Zip: 22209 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. Alan E. Schiavelli Name of Person Signing Attorney Registration No. 32,087	Additional numbers attached? Yes X No	
Internal Address: Street Address: 1300 North Seventeenth Street Suite 1800 City: Arlington State: VA Zip: 22209 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. Alan E. Schiavelli Name of Person Signing Attorney Registration No. 32,087		6. Total number of applications and patents involved: 1
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Suite 1800 City: Arlington State: VA Zip: 22209 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. Alan E. Schiavelli Name of Person Signing Attorney Registration No. 32,087 (Attach duplicate copy of this page if paying by deposit account) Attach duplicate copy of this page if paying by deposit account) Attach duplicate copy of this page if paying by deposit account) Attach duplicate copy of this page if paying by deposit account) Date Statement and signature. August 23, 2001 Date	Internal Address:	Any deficiencies may be charged to deposit account
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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. Alan E. Schiavelli Name of Person Signing Attorney Registration No. 32,087	Gaille 1533	(Attach duplicate copy of this page if paying by deposit account)
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. Alan E. Schiavelli Name of Person Signing Attorney Registration No. 32,087 Signature August 23, 2001 Date		
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. Alan E. Schiavelli Name of Person Signing Attorney Registration No. 32,087 Signature August 23, 2001 Date		
Name of Person Signing Signature Date Attorney Registration No. 32,087		
	To the best of my knowledge and belief, the foregoing info of the original document.	
OMB No. 0651-0011 (exp. 4/94)	To the best of my knowledge and belief, the foregoing info of the original document. Alan E. Schiavelli Name of Person Signing Signature	August 23, 2001

PATENT REEL: 012114 FRAME: 0093

ASSIGNMENT

(譲渡証)

As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to me citizen of Japan by HITACHI, LTD., a corporation organized under the laws of Japan, located at 6, Kanda Surugadai 4-chome. Chiyoda-ku, Tokyo, Japan, receipt of which is hereby acknowledged I do hereby sell and assign to said HITACHI, LTD., its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

"ELECTRONIC DEVICE"

invented by me (if only one is named below) or us (if plural inventors are named below) and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said HITACHI, LTD., its successors, assigns or other legal representatives, to the full end of term for which said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said assignee;

And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said HITACHI, LTD.

Signed on the date(s) indicated aside signatures:

RECORDED: 08/23/2001

INVENTOR(S) (発明者フルネームサイン)	Date Signed (署名日)
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PATENT REEL: 012114 FRAME: 0094