FORM PTO-1595 (Flov. 8-93) FECORDATION FO OMB No. 0651 0011 (fixp. 4/94) FECORDATION FO	2000 SHEET U.S. DEPARTMENT OF COMMERCE Patent and Tradomark Office
Inb settings (2) (2) ▼	
To the Henerable Commissioner of P	iched original documents or copy thereofts
1. Name of conveying party(les): (1)Hiroyuki KIYANAGI	1149 2. Name and address of receiving party(ies) Name: FUJITSU LIMITED
Additional name(s) of conveying party(tes) attached? 니 Yes 웹 No	Internal Address:
3. Nature of conveyance;	
⊠ Assignment ⊔ Merger	Street Address: 1-1, Kamikodanaka 4-chome,
니 Security Agreement 니 Change of Name	Nakahara-ku, Kawasaki-shi,
U Other	Clly: Kanagawa Slate: ZIP: 211-8588
Execution Date: May 8, 2000	Country: Japan Additional name(s) & address(as) attached? U Yes 哲 No
4. Application number(s) or patent number(s): 09/584	4946
If this document is being filed together with a new application	
	т, пто ехесиноп наве от тое аррисанов is:
Λ. Patent Application No.(s)	B. Palent No.(s)
DOCKET NO.: FUJS 17.359 Additional numbers at	lached? U Yes U No
/04/2000a518975nd a0000031 09584196to whom correspondence FC:58£onceming document sho46400a00nailed:	6. Total number of applications and patents involved:
Name: HELFGOTT & KARAS, P.C.	7. Total fee (37 CFR 3.41)\$40.00
Internal Address: EMPIRE STATE BUILDING	🛚 Enclosed
60TH FLOOR	LI Authorized to be charged to deposit account
Street Address: 350 5TH AVENUE	8. Deposit account number:
SUITE 6024	08-1634
City: NEW YORK State: NY ZIP: 10118	(Altrich dupitionto copy of this page if paying by deposit account)
DO HO/JUS	SE THIS SPACE
9. Statement and signature. To the best of my knowledge and belief, the foregoing infom the original document.	nation is true and correct and any attached copy is a true copy of
Samson Helfgott	6/1/00
Name of Person Signing	Signature Date
	cover shoet, attachments, and document:
Commissioner of Patents & T	required cover sheet information to: indemniks, Box Assignments n.D.C. 2023 i

Filed by Express Mail (Receipt No ELS 239(8100) on S/1/00 pursuant to 37 C.F.R. 1.10.

Any fee due with this paper, not fully covered by an enclosed check, may be charged on Deposit Acct. No. 08-1634

PATENT REEL: 010844 FRAME: 0026

UNITED STATES

ASSIGNMENT

Docket No. FUJS 17.359

for which	WHEREAS, the below named inventor, ASSIGNOR, has made a certain new and useful invention in : APPARATUS AND BIT-SHIFT METHOD FOR ELIMINATING INTERFERENCE OF CROSS POLARIZATI	
(check one) [X] a	an application is being filed concurrently herewith,	
	an application for a Patent of the United States was filed on	
	and given Application Serial No.	
	FUJITSU LIMITED	
having a place of busin		
Kanagawa 211-85		
is desirous of obtainin	ng the entire right, title and interest in, to and under the said invention and the said application:	
successors, legal represaid United States app which may be grante protection, including, filed for said invention applications and the riple Patent Laws of the Uninternational agreemer and all forms of industriated and designs which all extensions, renewal ASSIGNOR author Official of any country forms of industrial processors, legal represance AND ASSIGNOR not executed, and will AND ASSIGNOR legal representatives at lawful papers, execute	nd by these presents does hereby sell, assign, transfer and set over, unto the said ASSIGNEE, assentatives and assigns, the entire right, title and interest in, to and under the said invention, and to plication and all divisions, renewals and continuations thereof, and all Patents of the United States and extensions thereof; and all applications for industrial proper without limitation, all applications for patents, utility models, and designs which may hereafter to in any country or countries foreign to the United States, together with the right to file sue the total for the same the priority rights derived from said United States application under the inited States, the International Convention for the Protection of Industrial Property, or any other or the domestic laws of the country in which any such application is filed, as may be applicable strial property protection, including, without limitation, patents, utility models, inventor's certific the may be granted for said invention in any country or countries foreign to the United States are alsed and reissues thereof; orizes and requests the Commissioner of Patents and Trademarks of the United States, and are yor countries foreign to the United States, whose duty it is to issue patents or other evidence reperty protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its sentatives and assigns, in accordance with the terms of this instrument. Recovenants and agrees that he has full right to convey the entire interest herein assigned, and he not execute, any agreement in conflict herewith. Refurther covenants and agrees that he will communicate to the said ASSIGNEE, its successor and assigns, any facts known respecting said invention, and testify in any legal proceeding, sign as all divisional, continuing, reissue and foreign applications, make all rightful oaths, and general to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enfort	
	aid invention in all countries.	
Full name of sole or fir	rst inventor Hiroyuki KIYANAGI	
nventor's signature		
•		
recidence DCIIUdi	-shi, Miyaqi, Japan Japanese Japanese	
•	-shi, Miyagi, Japan Citizenship Japanese	
•	c/o FUJITSU TOHOKU DIGITAL TECHNOLOGY LIMITED,	
•		
Post Office Address	c/o FUJITSU TOHOKU DIGITAL TECHNOLOGY LIMITED, 2-25, Ichibancho 1-chome, Aoba-ku, Sendai-shi, Miyagi 980-0811 Japan	
Post Office Address Full name of second jo	c/o FUJITSU TOHOKU DIGITAL TECHNOLOGY LIMITED, 2-25, Ichibancho 1-chome, Aoba-ku, Sendai-shi, Miyagi 980-0811 Japan Dint inventor, if any	
Post Office Address Full name of second journation of second Inventor's sign	c/o FUJITSU TOHOKU DIGITAL TECHNOLOGY LIMITED, 2-25, Ichibancho 1-chome, Aoba-ku, Sendai-shi, Miyagi 980-0811 Japan Dint inventor, if any nature	
Post Office Address Full name of second journament of second Inventor's signification.	c/o FUJITSU TOHOKU DIGITAL TECHNOLOGY LIMITED, 2-25, Ichibancho 1-chome, Aoba-ku, Sendai-shi, Miyagi 980-0811 Japan Dint inventor, if any nature Citizenship	
Post Office Address Full name of second journation of second Inventor's signification. Residence	c/o FUJITSU TOHOKU DIGITAL TECHNOLOGY LIMITED, 2-25, Ichibancho 1-chome, Aoba-ku, Sendai-shi, Miyagi 980-0811 Japan Dint inventor, if any nature	
Post Office Address Full name of second journal second Inventor's sign Residence Post Office Address	c/o FUJITSU TOHOKU DIGITAL TECHNOLOGY LIMITED, 2-25, Ichibancho 1-chome, Aoba-ku, Sendai-shi, Miyagi 980-0811 Japan Dint inventor, if any Citizenship	
Post Office Address Full name of second journal of second Inventor's sign Residence Post Office Address Full name of third join	c/o FUJITSU TOHOKU DIGITAL TECHNOLOGY LIMITED, 2-25, Ichibancho 1-chome, Aoba-ku, Sendai-shi, Miyagi 980-0811 Japan Dint inventor, if any Citizenship The inventor, if any	
Post Office Address Full name of second jo Second Inventor's sign Residence Post Office Address Full name of third join Third Inventor's signa	c/o FUJITSU TOHOKU DIGITAL TECHNOLOGY LIMITED, 2-25, Ichibancho 1-chome, Aoba-ku, Sendai-shi, Miyagi 980-0811 Japan Dint inventor, if any Citizenship	

RECORDED: 06/01/2000

PATENT REEL: 010844 FRAME: 0027