9.<sup>.</sup>.

**REC**(

01-28-2000



101252490

U.S. Department of Commerce Patent and Trademark Office

01 - 04- 00

Our Ref.: 1035-242

Commissioner of Patents and Trademarks
Box Assignment Washington, D.C. 20231

To the Honorable Commissioner of Patents and Trademarks: Plea	ase record the attached original documents or copy thereof.		
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):		
Yoshihiro IZUMI			
Osamu TERANUMA	Name: SHARP KABUSHIKI KAISHA		
	Name: SHARP KABUSHIKI KAISHA Internal Address:		
	Street Address: 22-22 Nagaike-cho Abeno-ku		
Additional name/s of conveying party/ies attached?			
3. Nature of conveyance:	City: Osaka		
☐ Assignment ☐ Merger	State/Country: Japan		
Security Assignment Change of Name	Zip: 545-8522		
Other			
Execution Date: December 17, 1999	Additional name/s & address/es attached? ☐ Yes ☐ No		
4. Application number(s) or patent number(s):			
If this document is being filed together with a new application, the execution	ion date of the application is: December 17, 1999		
A. Patent Application No(s).	B. Patent No(s).		
(1)	(1) 09 47733 ¢		
(2)	(2)		
(3)	(3)		
Additional numbers a			
5. Name and address of party to whom correspondence	6. Total number of applications & patents involved:1		
concerning document should be mailed:			
	7. Total fee (37 CFR 3.41) \$ 40.00		
Name: H. Warren Burnam, Jr.			
	Authorized to be charged to deposit account #14-1140		
Internal Address:			
Street Address Niver & Vandarhya D.C.	8. The Commissioner is hereby authorized to charge any		
Street Address: Nixon & Vanderhye P.C.  1100 North Glebe Road	deficiency in the fee(s) filed, or asserted to be filed, or which		
8 <sup>th</sup> Floor	should have been filed herewith (or with any paper thereafter		
	filed in this application by this firm) to our <b>Account No.</b>		
City: Arlington State: VA Zip: 22201	14-1140.		
DO NOT US	L E THIS SPACE		
DO NOT US	E THIS STACE		
9. Statements and signature.			
To the best of my knowledge and belief, the foregoing information	ation is true and correct and any attached conv is a true conv		
of the original document.			
H. Warren Burnam, Jr. Aliguice	January 4, 1999		
H. Warren Burnam, Jr.  Name of Person Signing  Sig	nature Date		
Reg. No. 29,366	. <del>- ****</del>		
}	nal cover sheet, attachments, and document: [2]		

PATENT

392418

REEL: 010501 FRAME: 0704

	ASSIG	NMENT OF U.S. PATE	NT APPLICATION		
	Yoshihiro IZUMI				
(Inventore)	Osamu TERANU	MA			
(Inventors)					
(Assignee)	considerations pa hereby does assig SHARP KABUSH	id to each of the undersigne gn, transfer and set over to IKI KAISHA	ellar (\$1.00) and other good and valuable ed, the undersigned agree(s) to assign, and a corporation ofJapan		
(Address)		o Abeno-ku Osaka 545-852			
(Title)	(hereinafter designated as the Assignee) the undersigned's entire right, title and interest fo the United States, its territories, dependencies and possessions in the invention, and all applications for patent and any Letters Patent which may be granted therefore, known as <a href="TWO-DIMENSIONAL">TWO-DIMENSIONAL</a> IMAGE DETECTOR, ACTIVE—MATRIX SUBSTRATE, AND DISPLAY DEVICE				
			ed on even date herewith an application for		
	patent in the Unite	ed States of America or, if no	ot on even date, then has executed on J.S. application Serial No, on		
		 acknowledges an obligation ne the invention was made.	of assignment of this invention to said		
application or and also to e deem necess	r any interference w xecute separate as sary or expedient ar	hich may be declared and a signments in connection wit nd further to perform any act	I documents necessary in connection with the any continuing or divisional applications thereo h such applications as the Assignee may t which may be necessary in connection with ection of Industrial Property or similar	)f	
	undersigned agree( ted States patent to		acts which may be necessary to obtain a gran	ıt	
and all Letter continuing ap covenants that	s Patent of the Unit oplications thereof to at he has (they hav	ed States resulting from said the said Assignee, as Assi	) the Commissioner of Patents to issue any d application or any division or divisions or ignee of the entire interest, and hereby tire interest herein assigned, and that he has nt in conflict herewith.		
this assignme rules of the U ASSIGNEE'S	ent any further iden Inited States Paten Sattorneys Nixon &	tification which may be nece t Office for recordation of thi	& VANDERHYE P.C. the power to insert on essary or desirable in order to comply with the is document. It is understood and agreed that sented only ASSIGNEE and will continue to	t	
In wit signature(s).	tness whereof, exec	cuted by the undersigned or	n the date(s) opposite the undersigned		
Date Decem	ber 17, 1999	Signature of inventor	- Coshibira Dzumi Osamu Teranumu		
Date <u>Decem</u>	ber 17, 1999	Signature of inventor	Gramu Teranumu		
Date		Signature of inventor			
Date		Signature of inventor			
Date		Signature of inventor			
Witnessed by	<i>y</i> :		Date		
Witnessed by	<i>y</i> :		Date		

**RECORDED: 01/04/2000** 

264637

Case No. : \_\_\_\_\_