

HEET

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Our Ref.: 1035-238

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

To the Honorable Commissioner of Patents and Trademarks: Plea			
1. Name of conveying party(ies): 2. Name and address of receiving party(ies):			
Osamu TERANUMA	"e = 1		
Yoshihiro IZUMI	Name: SHARP KABUSHIKI KAISHA		
	Internal Address:		
	Street Address: 22-22 Nagaike-cho		
	Abeno-ku		
Additional name/s of conveying party/ies attached?	T =		
3. Nature of conveyance:	City: Osaka		
	State/Country: Japan		
Security Assignment Change of Name	Zip: 545-8522		
Other			
Execution Date: November 1, 1999	Additional name/s & address/es attached? Yes No		
Execution Date. November 1, 1999	Additional name/s & address/es attached.		
4. Application number(s) or patent number(s):			
4. Application number(s) of patent number(s). If this document is being filed together with a new application, the execution	on date of the application is: November 1, 1999		
If this document is being thed together with a new appreciation, the excession	Trovenior 1, 1999		
A. Datant Application No(a)	B. Patent No(s).		
A. Patent Application No(s).	(1)		
(1) Unknown	(2)		
(2)	(3)		
(3) 09437470 Additional numbers at			
	6. Total number of applications & patents involved:1		
5. Name and address of party to whom correspondence	o. Total number of approaches as parents		
concerning document should be mailed:	7. Total fee (37 CFR 3.41) \$		
YY TY D	Enclosed		
Name: H. Warren Burnam, Jr.	Authorized to be charged to deposit account #14-1140		
	Authorized to be charged to deposit decoding it is		
Internal Address:	8. The Commissioner is hereby authorized to charge any		
	deficiency in the fee(s) filed, or asserted to be filed, or which		
Street Address: Nixon & Vanderhye P.C.	should have been filed herewith (or with any paper thereafter		
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City: Arlington State: VA Zip: 22201	14-1140.		
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Total names of F.S.			

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> **PATENT REEL: 010392 FRAME: 0001**

			Case No	
	ASS	SIGNMENT OF U.S. PA	ATENT RIGHTS	Name
(Inventors)	Osamu TERANU	IMA		
,	Yoshihiro IZUMI			
(Assignee)	considerations pa	iid to each of the undersigne gn, transfer and set over to	llar (\$1.00) and other good and valuable ed, the undersigned agree(s) to assign, and	
(Address)		o Abeno-ku Osaka 545-852	2 Japan	
(Title)	(hereinafter desig the United States applications for pa TWO-DIMENSION for which the under patent in the United	nated as the Assignee) the user its territories, dependencies atent and any Letters Patent NAL IMAGE DETECTING DIFFICIONS OF STATES OF AMERICA OF IT NO STATES OF THE NAME OF	undersigned's entire right, title and interest for and possessions in the invention, and all which may be granted therefore, known as EVICE AND MANUFACTURING METHOD THE do n even date herewith an application for on even date, then has executed on Serial No, o	<u>ier</u> eof
	The undersigned at the time the inv	 acknowledges an obligation o entìon was made.	of assignment of this invention to said assigne	e Эе
application or and also to ex necessary or	any interference w ecute separate ass expedient and furth	hich may be declared and ar signments in connection with ler to perform any act which r	documents necessary in connection with the ny continuing or divisional applications there a such applications as the Assignee may dee may be necessary in connection with claims adustrial Property or similar agreements.	of m
The u	indersigned agree(ed States patent to	s) to perform all affirmative a the Assignee.	acts which may be necessary to obtain a gra	nt
all Letters Pat applications thas (they hav	ent of the United St nereof to the said A e) full right to conve	ates resulting from said appli ssignee, as Assignee of the	the Commissioner of Patents to issue any an ication or any division or divisions or continuin entire interest, and hereby covenants that he assigned, and that he has (they have) not ewith.	ng
The u assignment a of the United	indersigned hereby ny further identifica States Patent Offic	grant(s) the firm of NIXON & tion which may be necessary e for recordation of this docu	VANDERHYE P.C. the power to insert on the yor desirable in order to comply with the rule ument.	is es
In with signature(s).	ness whereof, exec	cuted by the undersigned on	the date(s) opposite the undersigned	
Date Novem	ber 1, 1999	Signature of inventor	Yoshkuro Izumi	
Date Novem	ber 1, 1999	Signature of inventor	Yoskakuro Izumi	
Date		Signature of inventor		
Date		Signature of inventor		
Date		Signature of inventor		
Witnessed by	<i>r</i> :		Date	
Witnessed by	r:		Date	
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PATENT REEL: 010392 FRAME: 0002