	Docket No.: 55	944 (70904)	
FORM PTO-1595 (Modified) 06 - 04 - 2002 (Rev. 03-01)	R SHEET OU.S.	DEPARTMENT OF COMMERCE	
OMB No. 0651-0027 (exp 5/31/2002) P08A/REV03	III LY /V	Patent and Trademark Office	
Tab settings → → ▼ 102110024 To the Honorable Commissioner of Patents and Trademarks:	Please record the attached original de	ocuments or copy thereof	
Name of conveying party(ies):	Name and address of receiving particles.	party(ies):	
Hiroshi FUJI	.		
Hiroyuki KATAYAMA Kunio KOJIMA 5-31-02	Name: SHARP KABUSHIKI KA	AISHA O M	
Kenji OHTA	Address: 22-22 Nagaiki-cho, Abo	eno-ku	
Additional names(s) of conveying party(ies)			
3. Nature of conveyance:			
☑ Assignment ☐ Merger		2 2	
☐ Security Agreement ☐ Change of Name	City: Osaka	State/Prov.:	
☐ Other	Country: JAPAN	_ ZIP:	
Execution Date:	Additional name(s) & address(es)	☐ Yes ⊠ No	
4. Application number(s) or patent numbers(s):	the everyther data after a the country of	:	
If this document is being filed together with a new application,		IS.	
Patent Application No. Filing date	B. Patent No.(s)		
09/864,060 May 23, 2001			
Additional numbers	☐ Yes ☒ No		
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and	patents involved: 1	
Name: William J. Daley, Jr.	7. Total fee (37 CFR 3.41):	\$ 40.00	
Registration No. 35,487	☑ Enclosed - Any excess or ins	sufficiency should be	
1 togion and 1 to	credited or debited to deposit	t account	
Address: EDWARDS & ANGELL, LLP.	☐ Authorized to be charged to	deposit account	
	8. Deposit account number:	-	
P.O. BOX 9169			
City: BOSTON State/Prov.: MA	04-1105 (Customer No. 21874)	eving by deposit account)	
Country: U.S.A. ZIP: 02209	(Attach duplicate copy of this page if p	aying by deposit account,	
DO NOT	USE THIS SPACE		
Statement and signature. To the best of my knowledge and belief, the foregoing inform	nation is true and correct and any atta	ched copy is a true copy	
/ cut minimal document	1		
William J. Daley, Jr., (Reg. 35,487)	m & Doley	3-15-02	
Name of Person Signing	Signature Date		
6/03/2002 GTON11 00000135 09864060 Total number of pages including	th required cover sheet information to:		
Commissioner of Patents &	on, D.C. 20231		
	REEL: 012940 F	RAME: 0017	

\19-14-20 0 1	Docket No: 55944(70904)			
FORM PT J-1595 (Rev. 6-93)	U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office OVER SHEET			
AUG 2 7 201 /101842381	_ JNLY			
To the Honorable Commissioner of Patents and Trademarks: Please r	record the attached original documents or copy thereof.			
Name of conveying party(ies):	Name and address of receiving party(ies):			
Hiroshi FUJI Hiroyuki KATAYAMA	Name: <u>Sharp Kabushiki Kaisha</u>			
Kuniko KOJIMA Kenji OHTA	Street Address: 22-22 Nagaike-cho, Abeno-ku_			
Additional name(s) of conveying party(ies) attached? ☐Yes [X]No	City: <u>Osaka</u> State: <u>JAPAN</u> Zip:			
	Additional name(s) & address(es) attached? [] yes [X] no			
3. Nature of Conveyance:	Please see attached.			
[X] Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name				
Other:				
Execution Date: July 2, 2001				
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the ex	xecution date of the application is:			
A. Patent Application No.(s) 09/864,060	B. Patent No.(s)			
Additional numbers atta	ached? LIYes [X]No			
 Name and address of party to whom correspondence concerning document should be mailed: Name: William J. Daley, Jr. Street Address: 	6. Total number of applications and patents involved: [1]			
Dike, Bronstein, Roberts & Cushman Intellectual Property Practice Group				
EDWARDS & ANGELL, LLP P. O. Box 9169				
City:Boston State:MA Zip:_02209				
	7. Total fee (37 CFR 3.41):\$_40.00 [X] Enclosed			
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09/14/2001 JJMLAN2 00000001 09864060 DO NOT USE THIS SPACE				
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9. signature.	August 24, 2001			
William J. Daley, Jr. (Reg. No. 35,487). Name of Person Signing Signature	Date			
Total number of pages including cover sheet, attachments, and documents [4]				
OMB No. 0651-0011 (exp. 4/94)				

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We	Hiroshi FUJ			
	Hiroyuki KA			<u> </u>
and for most ar	Kuniko KOJI	MA sideration from_	CHADD RADING	
ter goes ar	in valuante cui		SHARP KABUSI	HIKI KAISHA
having its hereinafter sell, assig right, titl United Stat for Improve DEVICE, TF including a therein set and of cour with the ri And for its success power of at or reissue, Assignee, i	principal place called the As me and transfer early interested the Serial No. The called the Serial No. The called the Serial No. The call priority rise forth and destries foreign to apply for the above contains or assigns torney, assign or other paperts successors and all paterns.	e of business in signee, receipt of unto the Assignation, to and under 19/864,060 MATION WRITE/RE, AND INFORMATION WRITE/RE, AND INFORMATION which may be a sideration we have to execute and ment, application is which may be a and assigns, the	Japanese Osaka, Japa Osaka, Japa of which is he ee, its succes r an application refiled on Ma READ HEAD, IN TON RECORDIN refron, and the and all letter y be granted to Patent. agree promptly deliver without, whether ori necessary or of inventions ar	corporation, an ereby acknowledged, do hereby ssors and assigns, the entire con for Letters Patent of the ay 23, 2001 * signed by us IFORMATION WRITING/READING
Cushman t which may U.S. Paten IN WITH	he power to be necessary t and Tradema	insert on this or desirable i rk Office for r Hiroshi FU	Assignment In order to o recordation o	f Dike, Bronstein, Roberts & any further identification comply with the rules of the f this document. hereunto set my
KATAYAM	A ZIIQ	hereunto set my	hand and seal	,2001, I, Hiroyuki this 2nd day of July, 2001
, and I	, Kunio KOJI	MA	. b	ereunto set my hand and seal
1115 2110	day of Ji	ity	,200 <u>1 -</u> - - -	Hiroshi Treji Hirojaker Katayama Kunio Kojima
conney or		day of, who is to of assignment to	·	, 19, personally appeared known, and acknowledged free act and deed.
Component 1	h (State) of		-	Notary Public
COMILY OF				
Before the foregoi	me thisd	ay of, who is to of assignment to	me personally be [her] his	, 19, personally appeared known, and acknowledged free act and deed.
		·		Notary Public
			·. ·	

*Where the application is assigned before it is filed, and hence has no Serial No., this shall be left blank.

PATENT REEL: 012940 FRAME: 0019

We Kenji OHTA	
and	
for good and valuable consideration from SHARP KARUS	
having its principal place of business in Osaka, Johereinafter called the Assignee, receipt of which is he sell, assign and transfer unto the Assignee, its successignt, title and interest in, to and under an application united States Serial No.09/864,060 filed on filed on filed on filed on DEVICE, TRACKING DEVICE, AND INFORMATION RECORDING Including all priority rights ensuing therefrom, and the therein set forth and described, and any and all Letter and of countries foreign thereto which may be granted to with the right to apply for such Letters Patent.	apan ereby acknowledged, do hereby essors and assigns, the entire ion for Letters Patent of the / 23, 2001 * signed by us FORMATION WRITING/READING NG MEDIUM he inventions and any of them ers Patent of the United States
And for the above consideration we agree promptlits successors or assigns, to execute and deliver with power of attorney, assignment, application, whether or or reissue, or other papers which may be necessary or dassignee, its successors and assigns, the inventions are application and all patent rights therein, in the Unit foreign thereto.	out further compensation any iginal, divisional, continuation desirable fully to secure to the ad any of them described in said
The undersigned hereby grant(s) the law firm of Cushman the power to insert on this Assignment which may be necessary or desirable in order to of U.S. Patent and Trademark Office for recordation of	any further identification comply with the rules of the
IN WITNESS WHEREOF, I, Kenji OHTA hand and seal this 2nd day of July , hereunto set my hand and seal	, hereunto set my _, 2001, I,
, and I, this day of , .	percunto set my hand and seal
	Xenji Outa
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	-
Commonwealth [State] ofss.	
Before me this day of, who is to me personall	, 19 , personally appeared
the foregoing instrument of assignment to be [her] his	free act and deed.
	Notary Public
Commonwealth [State] ofss.	
Before me this day of, who is to me personally the foregoing instrument of assignment to be [her] his	, 19, personally appeared known, and acknowledged free act and deed.
the roregoing instrument of assignment to in the first	
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	Notary Public

*Where the application is assigned before it is filed, and hence has no Serial No., this shall be left blank.

RECORDED: 05/31/2002

PATENT REEL: 012940 FRAME: 0020