04/27/00

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Docket No.: 49535(868)

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

To the Honorable Commissioner of Patents and Assembly	59001 <b>y y</b>			
1. Name of conveying party(ies): TAKASHI KITAGAWA, TOSHIHIRO OHTA, YASUTAKA MAEDA MAKOTO UEHARA, KATSUHIRO NAGAYAMA	2. Name and address of receiving party(ies):  Name: SHARP KABUSHIKI KAISHA  Address: 22-22 Nagaike-cho, Abeno-ku			
Additional names(s) of conveying party(ies)	20 EV			
3. Nature of conveyance:	6536			
☐ Security Agreement ☐ Change of Name	City: Osaka State/Prov.:			
☐ Other	Country: Japan ZIP:			
Execution Date: April 24, 2000	Additional name(s) & address(es)			
Patent Application No. Filing date  Additional numbers	B. Patent No.(s)  → 1/500079			
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved: 1			
Name: David G. Conlin  Registration No. 27026	7. Total fee (37 CFR 3.41):\$ 40.00  Enclosed - Any excess or insufficiency should be credited or debited to deposit account  Authorized to be charged to deposit account			
Address: Dike, Bronstein, Roberts & Cushman, LLP				
City: Boston Country: USA  ZIP: 02109	8. Deposit account number:  04-1105  USE THIS SPACE			
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DIKE, BRONSTEIN, ROBERTS & CUSHMAN, LLP 130 Water Street Boston, Massachusetts 02109

A	TTORNEY DOCKET	NO

49535(868)

## **ASSIGNMENT**

	Application No				Filed	
Insert Name(s) of Inventor(s)	→ WHEREAS,_	Takashi	KITAGAWA,			
or inventor(s)		Toshihir	o OHTA,			
	Apparent of the second	Yasutaka	MAEDA,			
		Makoto U	JEHARA and			
		Katsuhir	O NAGAYAMA			
	(hereinafter designate	ed as the undersig	ned) has (have) invented	d certain new and u	seful improvements in _	
Insert Title of Invention	→ IMAGE FOR	MING APPAR	RATUS	· · · · · · · · · · · · · · · · · · ·		
	for which an applicat	ion for Letters Pat	tent of the United States	of America has beer	n executed by the unders	signed
Insert Date						
of Signing of Application	→ on April 2	4, 2000				; and
insert Name	<b>➡</b> WHEREAS,_	SHARP K	KABUSHIKI KAIS	SHA		
of Assignee						
nsert Address of Assignee	→ of	Nagaike-c	cho, Abeno-ku	, Osaka, Ja	pan	
CHECK BOX f appropriate	acquiring the entire	right, title and in refor in the Unite	tives and assigns (herein nterest in and to said in ed States of America and	vention and in and	s the Assignee) is desire to any Letters Patent(s	ous of
					) to the undersigned in	

and if the box above is designated, in any and all foreign countries;
and to any and all divisions, reissues, continuations and extensions thereof for the full term or terms for which the same may be granted.

has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions.

PATENT REEL: 010781 FRAME: 0952 The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the law firm of Dike, Bronstein, Roberts & Cushman, LLP the power to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date April 24, 2000,	Name of Inventor (Takashi KITAGAWA) Takashi kilagawa			
Jake 145111	(signature)			
Date <u>April 24, 2000</u> ,	Name of Inventor (Toshihiro OHTA) Toshihiro Ohta.			
Jate April 24, 2000,	Traine of fire and a second of the second of			
Date April 24, 2000,	Name of Inventor (Yasutaka MAEDA) - Gruntula Clucola			
	(signature)  (Makoto (JEHARA) Makoto Uehaka			
Date <u>April 24, 2000</u> ,	Name of Inventor (Makoto UEHARA) Makoto Vehara			
Date ADIII 24, 2000,	(signature)			
Date <u>April 24, 2000</u> ,	Name of Inventor (Katsuhiro NAGAYAMA) Hotsuhira Juagaryama			
Date April 24, 2000,	(signature)			
Date	Name of Inventor(signature)			

RECORDED: 04/27/2000

PATENT REEL: 010781 FRAME: 0953