Atty. Docket No.: 1247-404P

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3. Nature of conveyance: Assignment Merger Security Agreement Change of Name Other: Execution Date: June 16, 1999 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the	City: Osaka State: ZIP: Country: JAPAN Postal Code: Additional name(s) & address(es) attached? ☐ Yes ☒ No				
A. Patent Application No(s). 09/310,341	B. Patent No.(s).				
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ATTORNEY DOCKET NO.

1247-0404P

ASSIGNMENT

		Application No. 09/310, 341				Filed May 12, 1999	
Insert Name(s)	-	WHEREAS,	Masao	YAMAZAKI	and		
of Inventor(s)			Terum	itsu SANTO			
Insert Title of Invention	→	(hereinafter designated as	G	s (have) invented co	ertain new and usefi	ul improvements in	
Insert Date of Signing of		for which an application fo	or Letters Patent of t	he United States of	America has been e	xecuted by the undersigned	
Application	-	on June 16,]	1999			; and	
Insert Name of Assignee	-	WHEREAS,	SHARP KABUS	HIKI KAISHA	A		
Insert Address of Assignee	-	of22-, No	agaike-cho,	Abeno-ku,	Osaka, Jap	an	
CHECK BOX 1f appropriate	-	its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and in any and all foreign countries.					
		paid, the receipt of which has (have) sold, assigned Assignce the full and ex	is hereby acknowled d and transferred, clusive right to the	ged, and other good and by these preso said invention in	d and valuable cons ents does sell, assig the United States o	o the undersigned in hand ideration, the undersigned gn and transfer unto said of America, its territories, y and all Letters Patent(s)	

which may be granted therefor in the United States of America, its territories, dependencies and possessions,

and to any and all divisions, reissues, continuations and extensions thereof for the full term or terms for

and if the box above is designated, in any and all foreign countries;

which the same may be granted.

PATENT REEL: 010134 FRAME: 0188 61542/99800018/US/MC

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 Assignce 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 Birch, Stewart, Kolasch & Birch, 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 June 16, 1999,	Name of Inventor (Masao YAMAZAKI)	masao Zamazaki
Date <u>June 16, 1999</u> ,	Name of Inventor (Terumitsu SANTO)	(signature)
Date,	Name of Inventor	(signature)
Date,	Name of Inventor	(signature)
Date,	Name of Inventor	(signature)
		(signature)
Date,	Name of Inventor	(signature)