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Docket No.: 49328(551)

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Name of conveying party(ies): HIRANAGA YAMAMOTO		2. Name and address of receiving party(ies):			
		Name: SHARP KABUSHIKI KAISHA			
		Address: 22-22 Nagaike-	cho, Abeno-ku		
Additional names(s) of conveying part	y(ies) 🔲 Yes 🛛 No	6 % 60 % 60 % 60 % 60 % 60 % 60 % 60 %			
. , ,	y(ics) = 100 = 110		10,100		
Nature of conveyance:					
☑ Assignment	☐ Merger				
☐ Security Agreement	☐ Change of Name	City: Osaka	State/Prov.:		
Other		Country: Japan	ZIP:		
Execution Date: September 10.	, 1999	Additional name(s) & address(es) ☐ Yes ☒ No		
4. Application number(s) or regi	stration numbers(s):	09411980	9		
		on, the execution date of the app	•		
Patent Application No.	Filing date	B. Patent No.(s)			
	G				
	Additional numbers	s 🔲 Yes 🖾 No			
5. Name and address of party to whom correspondence concerning document should be mailed:		6. Total number of applicati	ons and patents involved:		
Name: David G. Conlin		7. Total fee (37 CFR 3.41):.	\$ 40.00		
Registration No. 27026		■ Enclosed - Any excess or insufficiency should be			
0/15/1999 PSTANHAC 00000055 09411989 Address: Dike, Bronstein, Roberts & Cushman, LLP		credited or debited to deposit account			
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Statement and signature.		<i>n</i>			
To the best of my knowledge	and belief, the foregoing infor	mation is true and/correct and a	ny attached copy is a true copy		
of the original document.		1/2/1/2	October 4, 1999		
David G. Conlin Name of Person Sign	ning	Signature	Date		
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PATENT REEL: 010309 FRAME: 0050

United States Patent Rights, or United States plus All Foreign Patent Rights

ATTORNEY DOCKET NO.	

ASSIGNMENT

	Application No		Filed
Insert Name(s) of Inventor(s)	→ WHEREAS,	Hiranaga YAMAMOTO	
nsert Title			certain new and useful improvements in
of Invention		ATION ACCORDING TO EXTERNAL	
	for which an application	on for Letters Patent of the United States o	of America has been executed by the undersigned
nsert Date of Signing of Application	⇒ onSepter	mber 10, 1999	; and
nsert Name of Assignee	→ WHEREAS,	Sharp Kabushiki Kaish	ua
nsert Address of Assignee	→ of22-22, Naga	aike-cho, Abeno-ku, Osaka-s	shi, Osaka, Japan
CHECK BOX F APPROPRIATE	acquiring the entire ri	ight, title and interest in and to said inve for in the United States of America and	after designated as the Assignee) is desirous of ention and in and to any Letters Patent(s) that

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned 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, 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.

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PATENT REEL: 010309 FRAME: 0051 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 Letters 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) the 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, Robert & Cushman 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.

Date September 10, 1999	Name of Inventor	Kiranaga Jan	manoto
		(signature)	Hiranaga YAMAMOTO
Date,	Name of Inventor	(signature)	
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Date	Name of Inventor	(signature)	
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		(signature)	
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		(signature)	
Date	Name of Inventor	(signature)	
		,	
Date	Name of Inventor	(signature)	
Date	Name of Inventor		
Date		(signature)	

PATENT REEL: 010309 FRAME: 0052