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Atty. Docket No.: 1247-0430P

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. 2. Name and address of receiving party(ies) 1. Name of conveying party(ies): Name: Sharp Kabushiki Kaisha Shigeharu MAEHARA Additional name(s) of conveying party(ies) attached Internal Address: TYES NO Street Address: 22-22, Nagaike-cho, Abeno-ku 3. Nature of conveyance: ZIP: City: Osaka State: Merger ★ Assignment Country: JAPAN Postal Code: Security Agreement Change of Name Additional name(s) & address(es) attached? \( \subseteq \textbf{YES} \subseteq \text{NO} \) Other: Date: July 24, 2000 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: July 24, 2000 B. Patent No.(s). A. Patent Application No(s). 09/604,971 Additional numbers attached? | YES | NO 5. Name and address of party to whom correspondence 6. Total No. of applications/patents involved: one (1) concerning document should be mailed: 7. Total fee (37 C.F.R. § 3.41): \$40.00 Name: BIRCH, STEWART, KOLASCH & BIRCH, LLP M Enclosed Street Address: P.O. BOX 747 Authorized to be charged to deposit account, ZIP: 22040-0747 if no fee attached. City: FALLS CHURCH State: VA 8. Deposit account number: 02-2448 Country: USA (Attach triplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. November 4 Donald J. Daley, #34,313 Total number of pages including cover sheet, attachments, and document: three (3) 1247/0430P 11/30/2000 AAHMED1 00000011 09604971 40.00 OP 01 FC:581

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ATTORNEY DOCKET NO.

1247-0430P

## **ASSIGNMENT**

	Application No(	9/604,971	Filed June 28, 2000
Insert Name(s) of Inventor(s)	<b>→</b> WHEREAS,	Shigeharu MAEHARA	
Insert Title		I as the undersigned) has (have) invented cert	
, invention	Image 101	ming apparacus	
	for which an application	on for Letters Patent of the United States of A	merica has been executed by the undersigned
Insert Date of Signing of Application	<b>→</b> onJuly 24	, 2000	; and
nsert Name of Assignee	→ WHEREAS,	SHARP KABUSHIKI KAISHA	
nsert Address of Assignee	→ of	Nagaike-cho, Abeno-ku, C	saka, Japan
снеск вох	may be granted there:	gal representatives and assigns (hereinafter ight, title and interest in and to said invention for in the United States of America and	designated as the Assignee) is desirous of on and in and to any Letters Patent(s) that
F APPROPRIATE -	in any and all fore	gn countries.	

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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The undersigned z = z(s) to execute all papers necessary in come — z 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 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 Ju	ly 24, 2000 ,	Name of Inventor (Shigeharu MAEHARA)	5. Machara
			(signature)
Date	•	Name of Inventor	
			(signature)
Date	,	Name of Inventor	
			(signature)
Date		Name of Inventor	
			(signature)
Date		Name of Inventor	
			(signature)
Date	•	Name of Inventor	
			(signature)

PATENT REEL: 011275 FRAME: 0634

**RECORDED: 11/09/2000**