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Atty. Docket No.: 1907-189P

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9514301 RECORDATION FORM COVER SHEET To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. 1. Name of conveying party(ies): 2. Name and address of receiving party(ie) MIYAZAWA, Tomozaku Name: SHARP KABUSHIKI KAISHA Additional name(s) of conveying party(ies) attached? Internal Address: ☐ Yes ☐ No Street Address: 22-22, Nagaike-cho, Abeno-ku 3. Nature of conveyance: City: OSAKA State: ZIP: ☐ Merger Country: JAPAN Postal Code: Security Agreement Change of Name Additional name(s) & address(es) attached ☐ Yes ☒ No Other: Execution Date: February 3, 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: February 3, 2000 A. Patent Application No(s). B. Patent No.(s). New 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 Street Address: P.O. BOX 747 Authorized to be charged to deposit account. City: FALLS CHURCH State: VA ZIP: 22040-0747 if no fee attached. 8. Deposit account number: 02-2448 Country: USA (Attach triplicate copy of thi 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 attacked copy is a true copy of the original document. Terrell C. Birch, #19,382 Feb⊨ary 28, 2000 Name of Person Signing/Reg. No. Total number of pages including cover sheet, attachments, and document: Three (3)

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PATENT REEL: 010593 FRAME: 0867

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ATTORNEY DOCKET NO.	
1907-189P	

ASSIGNMENT

	Application No. New	Filed .	2-28-00
Insert Name(s) of Inventor(s)	→ WHEREAS, Tomokazu MIYA	AZAWA	
Insert Title of Invention		nas (have) invented certain new and useful improv	
Insert Date of Signing of Application		the United States of America has been executed b	-
Insert Name of Assignee	♦ WHEREAS, SHARP KABUSE		
Insert Address of Assignee	▶ of22-22, Nagaike-cho, Aben	o-ku, OSAKA, JAPAN	
CHECK BOX IF APPROPRIATE	acquiring the entire right, title and interest may be granted therefor in the United State in any and all foreign countries. NOW, THEREFORE, in consideration paid, the receipt of which is hereby acknowled has (have) sold, assigned and transferred, Assignee the full and exclusive right to the dependencies and possessions and the entire	ad assigns (hereinafter designated as the Assignation and to said invention and in and to any Letters of America and of the sum of Ten Dollars (\$10.00) to the underlied and other good and valuable consideration, and by these presents does sell, assign and trest asid invention in the United States of America eright, title and interest in and to any and all I states of America, its territories, dependencies	rs Patent(s) that rsigned in hand the undersigned onsfer unto said a, its territories, etters Patent(s)

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

which the same may be granted.

PATENT REEL: 010593 FRAME: 0868

1907-18 P The undersigned agree(s) to execute all papers necessary in connection with this application at d 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 Paten 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 reay 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 n 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 I erein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict her with.

The undersigned hereby grant(s) the law firm of Birch, Stewart, Kolasch & Birch, LLP the power to onsert 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 Feb. 3 Zooo,	Name of Inventor Tomckuzu Miyazo	wa
		(signature) Tomokazu NIYAZAWA
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: 010593 FRAME: 0869

RECORDED: 02/28/2000