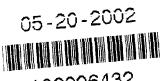
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Commissioner of Patents and Trademarks

Box Assignment Washington D.C. 2023

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Box Assignment, Washington, D.C. 20231	<u> </u>
To the Honorable Commissioner of Patents and Trademarks: Plea	
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):
HIDESHI KOIZUMI	
	Name: SHARP KABUSHIKI KAISHA
	Internal Address:
	Street Address: 22-22, Nagaike-cho, Abeno-ku
Additional name/s of conveying party/ies attached?	
3. Nature of conveyance:	City Ocales
Assignment	City: Osaka
Security Assignment Change of Name	State/Country: Japan
Other	Zip:
Execution Date: March 20, 2002	Additional name/s & address/es attached? Yes No
	Transcould refine to a discould be a discoul
4. Application number(s) or patent number(s):	and the confession of the same Virginian in
If this document is being filed together with a new application, the execution date of the application is:	
A. Patent Application No(s).	B. Patent No(s).
(1) 29/156,639	(1)
(2)	(2)
(3)	(3)
Additional numbers at	tached Yes No
5. Name and address of party to whom correspondence	6. Total number of applications & patents involved: 1
concerning document should be mailed:	7 Total fee (37 CFR 3.41) \$ 40.00
	7. Total lee (5) el le 5(11)
Name: Richard G. Besha	Enclosed
	Authorized to be charged to deposit account #14-1140
Internal Address:	O TIL Compared to charge any
	8. The Commissioner is hereby authorized to charge any
Street Address: Nixon & Vanderhye P.C.	deficiency, or credit any overpayment, in the fee(s) filed, or
1100 North Glebe Road	asserted to be filed, or which should have been filed herewith
8 th Floor	(or with any paper thereafter filed in this application by this
City: Arlington State: VA Zip: 22201	firm) to our Account No. 14-1140.
	The second secon
DO NOT USE THIS SPACE	
9. Statements 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.	
Did IC District	May 14, 2002
Richard G. Besha Yuckanot	onature Date
Name of Person Signing Signature Name 22 770	gnature
Reg. No. 22,770 Total number of pages including original cover sheet, attachments, and document: [3]	
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ASSIGNMENT FOR PATENT APPLICATION (U.S. Rights Only)

WHEREAS, HIDESHI KOIZUMI, (hereinafter ASSIGNOR) of 380-1,
Nenarigaki, Yamatotakada-shi, Nara-ken, Japan, has made an invention entitled
SEMICONDUCTOR DEVICE for which a so-entitled application for Letters Patent, was
filed in the United States Patent and Trademark Office on March 6, 2002;

WHEREAS, SHARP KABUSHIKI KAISHA (hereinafter ASSIGNEE), a corporation of the Country of Japan, having an office and place of business at 22-22, Nagaike-cho, Abeno-ku, Osaka, Japan is desirous of acquiring an interest therein;

NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNOR by these presents hereby sells, assigns, and transfers unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNOR'S entire right, title and interest in the United States of America as defined in 35 U.S.C. § 100, in and to the invention as described in the aforesaid application and to the said application and to all subsequent applications based thereon including any and all continuations, divisions, reissues, and substitutes of said application, and all resulting patents, and the ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademark to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives. It is understood and agreed that

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ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention;

ASSIGNOR hereby agrees to transfer a like interest upon request of said ASSIGNEE, its successors, assigns, and legal representatives, and without further remuneration, in and to any improvements, and applications for patents based thereon, growing out of or related to the said invention; and

ASSIGNOR hereby agrees to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essential to ASSIGNEE'S full protection and title in and to the invention hereby transferred.

AGREED and executed as noted below:

March 20, 2002 Date	Hideshi Koizumi HIDESHI KOIZUMI
Witnessed by:	
Name: April 1, 2002	Date: K. Takahashi
Name: April 1, 2002	Date: