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Form PTO-1595
1-3-92



101648827

ER LETTER

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

Attorney Docket No.: 81788.0187

To the Assistant Commissioner for Patents: Please record the attached original documents or copy thereof.

<p>1. Name of conveying party(ies): Atsushi KAWASUMI</p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>	<p>2. Name and address of receiving party(ies): KABUSHIKI KAISHA TOSHIBA 72, Horikawa-cho, Saiwai-ku, Kawasaki-shi, Kanagawa-ken, Japan</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment</p> <p>Execution Date: March 7, 2001</p> <p style="font-size: 2em; text-align: center;">3/09/01</p>	<p style="text-align: right; font-size: 0.8em;">1520 U.S. PTO 09/803626 03/09/01</p>

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: March 7, 2001

<p>A. Patent Application No.(s)</p>	<p>B. Patent No.(s) 09803626</p>
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Additional numbers attached? Yes No

<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Louis A. Mok, Esq. HOGAN & HARTSON L.L.P. 500 South Grand Avenue, Suite 1900 Los Angeles, CA 90071</p>	<p>6. Total number of applications and patents involved: [1]</p>
	<p>7. Total fee (37 CFR 3.41) \$40.00</p> <p><input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account</p>
	<p>8. Deposit account number: 50-1314</p> <p>(Attach duplicate copy of this page if paying by deposit account)</p>

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.

Louis A. Mok

Date: March 9, 2001

OMB No. 0651-0011 (exp. 4/94)

Mail documents to be recorded with required cover sheet information to:

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(03-27-2001) 101648827 001023 09000000

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Assignment

For good and valuable consideration, the receipt of which is hereby acknowledged, I/WE, the undersigned,

Atsushi KAWASUMI

who have created a certain invention for which an application for United States Letters Patent

- executed by ME/US on even date herewith,
- executed by ME/US on _____, (respectively).
- filed on _____ and assigned Serial No. _____
- filed as International Application No. _____ filed on _____

and entitled: "BUFFER CIRCUIT, AND SEMICONDUCTOR DEVICE AND SEMICONDUCTOR MEMORY DEVICE INCLUDING SAME"

Do hereby sell, assign and transfer to KABUSHIKI KAISHA TOSHIBA, a corporation of Japan, having a place of business at 72, Horikawa-Cho, Saiwai-Ku, Kawasaki-Shi, Kanagawa-Ken, Japan, its successors, assigns, and legal representatives, the full and exclusive right to said invention and said application and to any and all inventions described in said application for the United States, its territorial possessions and all foreign countries, and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States, its territorial possessions and all foreign countries; and in and to any and all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, and all other applications for Letters Patent relating thereto which have been or shall be filed in the United States, its territorial possessions and/or any foreign countries, and all rights, together with all priority rights, under any of the international conventions, unions, agreements, acts, and treaties, including all future conventions, unions, agreements, acts, and treaties;

Agree that KABUSHIKI KAISHA TOSHIBA, hereinafter referred to as Assignee, may apply for and receive Letters Patent for said invention and said inventions, hereinafter referred to as said invention, in its own name, in the United States, its territorial possessions, and all foreign countries; and that, when requested to carry out in good faith the intent and purpose of this assignment, at the expense of said Assignee, its successors, assigns and legal representatives, the undersigned will execute all continuations-in-part, continuations, divisions, substitutes, reissues, extensions thereof, execute all rightful oaths, assignments, powers of attorney and other papers, testify in any legal or quasi legal proceedings; communicate to said Assignee, its successors, assigns or legal representatives all facts known to the undersigned relating to said invention and the history thereof; and generally do everything possible which said Assignee, its successors, assigns, or legal representatives shall consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said invention and for vesting title to said invention and all applications for patents on said invention in said Assignee, its successors, assigns, or legal representatives; and

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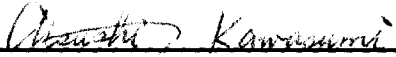
さらに、下記に署名した私/私達はこの譲渡書は英語の部分の表現によってのみ解釈されることに同意する。

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Covenant with said Assignee, its successors, assigns, or legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

I/WE, the undersigned do further agree that this Assignment is to be construed solely according to the terms of the English language portions thereof.

IN TESTIMONY WHEREOF I/WE have hereunto set MY/OUR signature seal on the date indicated below.

唯一または第一発明者名	Full name of sole or first inventor Atsushi KAWASUMI		
発明者の署名	日付	Inventor's signature	Date
			March 7, 2001
第二共同発明者 (いる場合)	Full name of second joint inventor, if any		
第二共同発明者の署名	日付	Second Inventor's signature	Date
第三共同発明者 (いる場合)	Full name of third joint inventor, if any		
第三共同発明者の署名	日付	Third Inventor's signature	Date
第四共同発明者 (いる場合)	Full name of fourth joint inventor, if any		
第四共同発明者の署名	日付	Fourth Inventor's signature	Date
第五共同発明者 (いる場合)	Full name of fifth joint inventor, if any		
第五共同発明者の署名	日付	Fifth Inventor's signature	Date
第六共同発明者 (いる場合)	Full name of sixth joint inventor, if any		
第六共同発明者の署名	日付	Sixth Inventor's signature	Date
第七共同発明者 (いる場合)	Full name of seventh joint inventor, if any		
第七共同発明者の署名	日付	Seventh Inventor's signature	Date
第八共同発明者 (いる場合)	Full name of eighth joint inventor, if any		
第八共同発明者の署名	日付	Eighth Inventor's signature	Date