PATENT ASSIGNMENT

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| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------|----------------|
| Kikuo SAKA | 10/04/2007 |
| Kimihiko YAMASHITA | 10/05/2007 |
| Toshiyuki TAKEMORI | 10/19/2007 |
| Yuji WATANABE | 10/17/2007 |

RECEIVING PARTY DATA

| Name: | Ricoh Company, Ltd. |
|-----------------|----------------------------------|
| Street Address: | 3-6, Nakamagome 1-chome, Ohta-ku |
| City: | Tokyo |
| State/Country: | JAPAN |
| Postal Code: | 143-8555 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 11901172 |

CORRESPONDENCE DATA

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| ATTORNEY DOCKET NUMBER: | 2271/78108 |
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NAME OF SUBMITTER: Paul Teng

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Docket No 2271/78108

| FORM PTO-1595 (Substitute) | RECORDATION FORM COVER SHEET | U.S. DEPARTMENT OF COMMERCE | |
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| (Rev 8-96) Patent and Trademark Of To the Honorable Commissioner of Patents and Trademarks Please record the attached original documents or copy thereof | | | |
| Name of conveying party(ies) | | dress of receiving party(ies) | |
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| Kikuo SAKA, Kimihiko YAM | ASHITA. Name Rice | oh Company, Ltd. | |
| Toshiyuki TAKEMORI, Yuji WATAI | | ss | |
| | | | |
| | | 3-6, Nakamagome 1-chome, | |
| Additional name(s) of conveying party(ies) attac | hed? Ohta-ku | | |
| Yes 🔀 No | City/State/Zip | Tokyo 143-8555, Japan | |
| 3 Nature of Conveyance | 0.9 | | |
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| Security Assignment Ch | ange of Name | | |
| Other | | o(s) & address(es) attached? Yes No | |
| Execution Date(s) October 4, 2007, (| October 5, 2007. | i(s) & address(es) attached / res No | |
| October 19, 2007, October 17, 2007 | | | |
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| 4 Application number(s) or patent number(s) | f this document is being filed together with | h a new application, the execution date(s) of the | |
| application is (are) | | <u> </u> | |
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| A Patent Application No (s) S.N. 11/9 | 001,172 B Patent No (s) | <u> </u> | |
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| | | ⊠ No | |
| 5 Name and address of party to whom correspond document should be mailed | ondence concerning 6 Total number | er of applications and patents involved 1 | |
| document should be malied | <u></u> | | |
| Name Ivan S. Kavrukov | 7 Total fee (3) | 7 CFR §3 41) \$ 40.00 | |
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| Internal Address | L E | nclosed | |
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| 1185 Avenue of | the Americas | uthorized to be charged to deposit account | |
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| City/State/Zip New York, New York | 8 Deposit acc | ount number | |
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| 9 Statement and signature | DO THE ST AGE | | |
| To the best of my knowledge and beli | ef, the <u>foregoing information</u> is true and c | orrect and any attached copy is a true copy of the | |
| original document | \mathcal{L} | ., ., ., | |
| Paul Teng, Reg. No 40,837 | -tout and | November 30, 2007 | |
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PATENT

Patent Application Assignment

In consideration of One Dollar (\$1.00), and other good and valuable considerations, the receipt of which is hereby acknowledged, I(we), the undersigned, hereby sell, assign and transfer to RICOH COMPANY, LTD. a corporation of Japan , having a place of business at 3-6, Nakamagome 1-chome, Ohta-ku, Tokyo 143-8555, Japan , its successors, assigns and legal representatives, the entire right, title and interest for all countries, in and to any and all inventions which are disclosed and claimed, and as possessed by the undersigned, any and all inventions which are disclosed but not claimed, in the application for United States Patent, which has been executed by the undersigned concurrently herewith and is entitled SEMICONDUCTOR DEVICE AND MANUFACTURING METHOD THEREOF, and in and to said application and all divisional, continuing, substitute, renewal, reissue, and all other applications for U.S. Letters Patent or other related property rights in any and all foreign countries which have been or shall be filed on any of said inventions disclosed in said application; and in and to all original and reissued patents or related foreign documents which have been or shall be issued on said inventions:

Authorize and request the Commissioner of Patents of the United States to issue to said Assignee, the corporation above named, its successors, assigns and legal representatives, in accordance with this assignment, any and all United States Letters Patent on said inventions or any of them disclosed in said application;

Agree that said Assignee may apply for and receive foreign Letters Patent or rights of any other kind for said inventions, or any of them; and may claim, in applications for said foreign Letters Patent or other rights, the priority of the aforesaid United States patent application under the provisions of the International Convention of 1883 and later modifications thereof, under the Patent Cooperation Treaty, under the European Patent Convention or under any other available international agreement; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns and legal representatives, to carry out in good faith the intent and purpose of this assignment, the undersigned or the undersigned's executors or administrators will, for the United States and all foreign countries, execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications or other documents on any and all said inventions; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee, its successors, assigns and representatives, all facts known and documents available to the undersigned relating to said inventions and the history thereof; testify in all legal proceedings; and generally do everything possible which said Assignee, its successors, assigns or representatives shall

consider desirable for aiding in securing, maintaining and enforcing proper patent protection for said inventions and for vesting title to said inventions and all applications for patents or related foreign rights and all patents on said inventions, in said Assignee, its successors, assigns and legal representatives; and

Covenant with said Assignee, its successors, assigns and 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.

| | Kikuo Saka | [L.S.] |
|-------|---------------------------|--------|
| Date: | October 4.2007 KIKUO SAKA | |

| | | Hinihiko | Grashiti [L.S.] |
|-------------------|----------------|--------------|-----------------|
| Date [.] | October 5 2017 | KIMIHIKO YAM | ASHITA |

| | | Joshiyaki | Jakemori . | [L.S.] |
|-------|------------------|-----------|------------|--------|
| Date: | October 19, 2007 | TOSHIYUKI | TAKEMORI | |

| | | Yiji Watanabe | [L.S.] |
|-------|------------------|---------------|--------|
| Date: | October 17. 2007 | YUJI WATANABE | |

Witness: Publis It

Forms Index

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COOPER & DUNHAM LLP

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Intellectual and Industrial Property Law including Patent, Trademark, Unfair Competition, Copyright and Antitrust Law. Trials.

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