

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Kenji Matsumoto</td> <td>02/15/2010</td> </tr> <tr> <td>Hitoshi Itoh</td> <td>02/15/2010</td> </tr> <tr> <td>Hiroshi Sato</td> <td>02/15/2010</td> </tr> </tbody> </table>		Name	Execution Date	Kenji Matsumoto	02/15/2010	Hitoshi Itoh	02/15/2010	Hiroshi Sato	02/15/2010		
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RECEIVING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>Tokyo Electron Limited</td> </tr> <tr> <td>Street Address:</td> <td>3-1, Akasaka 5-chome, Minato-ku</td> </tr> <tr> <td>City:</td> <td>Tokyo</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>107-6325</td> </tr> </table>		Name:	Tokyo Electron Limited	Street Address:	3-1, Akasaka 5-chome, Minato-ku	City:	Tokyo	State/Country:	JAPAN	Postal Code:	107-6325
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
<p>Fax Number: (216)579-6073</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 216-579-1700</p> <p>Email: cdavis@pearne.com</p> <p>Correspondent Name: PEARNE & GORDON LLP</p> <p>Address Line 1: 1801 EAST 9TH STREET</p> <p>Address Line 2: SUITE 1200</p> <p>Address Line 4: CLEVELAND, OHIO 44114-3108</p>											
ATTORNEY DOCKET NUMBER:	MAPS-46524										
NAME OF SUBMITTER:	Michael W. Garvey										
<p>Total Attachments: 3</p> <p>source=MAPS-46524-Assignment#page1.tif</p>											

CH \$40.00 12720831

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PATENT
REEL: 024058 FRAME: 0096

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譲 渡 証

下記署名者によって、

半導体装置の製造方法

において、

新規かつ有用な改良がなされ、

[X] これはアメリカ合衆国特許商標庁に出願するための特許出願の対象とする。

[] このアメリカ合衆国の特許証が _____ 日付で申込みされ、その申込み番号である _____ によって確認される。

本証をもって、**3-1, Akasaka 5-chome, Minato-ku, Tokyo 107-6325 Japan** に所在する日本法人の **TOKYO ELECTRON LIMITED** (以下、譲受人という) は、本改良と発明及びその特許権に関する全世界各国における一切の権利、権原及び利権を取得することを希望する。

ここに、下記署名者は相当な対価を受領しており、それが十分な対価であることを認識した上で、制限なく、アメリカ合衆国内の特許を取得するための当該特許出願、その全ての分割出願及び継続出願、それに許可が与えられた全ての特許、その全ての再発行及び延長、それに基づいて過去の侵害を訴訟できる全ての権利、本改良及び発明に対して、アメリカ合衆国以外の国家や州、

ASSIGNMENT

WHEREAS, new and useful improvements have been made by the undersigned in

**SEMICONDUCTOR DEVICE
MANUFACTURING METHOD**

[X] and are the subject of a patent application prepared for filing in the United States Patent and Trademark Office.

[] for which an application for Letters Patent of the United States was filed on _____, which application is identified by Serial No. _____.

WHEREAS, **TOKYO ELECTRON LIMITED**, a corporation of **Japan**, having a place of business at **3-1, Akasaka 5-chome, Minato-ku, Tokyo 107-6325 Japan**, hereinafter referred to as "assignees", are desirous of acquiring all right, title, and interest throughout the world in, to, and under said improvements and inventions and patent rights therefor.

NOW, THEREFORE, be it known that, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, all right, title, and interest, in the United States and throughout the world, in, to and under said improvements and inventions and all patents, patent applications, patent rights, and inventor's certificates thereof, therefor, and therein, including without limitation said application for patent in the United States, all divisions and

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下記署名者は、本証の登記にあたり、アメリカ合衆国特許商標庁の規則に従って、必要もしくは望ましい一切の追加的な識別情報を本譲渡証に挿入できる権限を Pearne & Gordon LLP に委任する。

continuations thereof, all patents which may be granted thereon, all reissues and extensions thereof, all right to sue for past infringement thereunder, all patents which may be granted for said improvements and inventions by states or nations other than the United States, or by other authority, entity, or organization, and all applications therefor, have been and are hereby sold, assigned, transferred, and delivered unto assignees, its successors and assigns; and it is covenanted and agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at assignees' request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary, or desirable to secure for or vest in assignees, its successors or assigns, any improvement, inventions, right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the United States Commissioner of Patents and Trademarks is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignees as owners of the entire right, title, and interest in, to, and under the same, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to assignees as owners of the entire right, title and interest in, to, and under the same.

The undersigned hereby grants the firm of Pearne & Gordon 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 United States Patent and Trademark Office for recordation of this document.

以上を確認の上、下記署名者が下記署名によって本譲渡証を発効させた。

(1) 発明者氏名: 松本 賢治

署名: _____

日付: _____

証人: _____

証人: _____

(2) 発明者氏名: 伊藤 仁

署名: _____

日付: _____

証人: _____

証人: _____

(3) 発明者氏名: 佐藤 浩

署名: _____

日付: _____

証人: _____

証人: _____

**書状の最後の頁

IN WITNESS WHEREOF, this assignment has been executed below by the undersigned:

(1) Inventor Name: Kenji MATSUMOTO

Signature: Kenji matsumoto

Today's Date: Feb. 15, 2010

Witness: _____

Witness: _____

(2) Inventor Name: Hitoshi ITOH

Signature: Hitoshi Itoh

Today's Date: Feb. 15, 2010

Witness: _____

Witness: _____

(3) Inventor Name: Hiroshi SATO

Signature: Hiroshi Sato

Today's Date: Feb. 15, 2010

Witness: _____

Witness: _____

**Last Page of Document