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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Pao-Hwa Chou	02/09/2009
Kazuhide Hasebe	02/09/2009
Shigeru Nakajima	02/09/2009
Yasushi Akasaka	02/09/2009
Mitsuaki Iwashita	02/09/2009
Reiji Niino	02/09/2009

RECEIVING PARTY DATA

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Street Address:	3-1 Akasaka 5-chome, Minato-ku
City:	Tokyo
State/Country:	JAPAN
Postal Code:	107-6325

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12441741

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ATTORNEY DOCKET NUMBER: MAPS-45064

PATENT

REEL: 022412 FRAME: 0343

NAME OF SUBMITTER:	Michael W. Garvey
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PATENT REEL: 022412 FRAME: 0344

ASSIGNMENT

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

PATTERNING 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 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,

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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.

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

Inventor Name:	Pao-Hwa CHOU
Signature:	Paortua ONIV
	February 9, 2009
Witness:	
Inventor Name: _	Kazuhide HASEBE
Signature:	Kapikile Gaselie
Today's Date:	February 9, 2009
Witness:	
Witness:	

REEL: 022412 FF

(3)	Inventor Name: Shigeru NAKAJIMA
	Signature: Afrigary Rakajima
	Today's Date: February 9, 2009
	Witness:
	Witness:
(4)	Inventor Name: Yasushi AKASAKA
	Signature: <u>Jasushi</u> akasaka
	Today's Date: February 9, 2009
	Witness:
	Witness:
(5)	Inventor Name: Mitsuaki IWASHITA
	Signature: Mitonobo Jwashita
	Today's Date: February 9, 2009
	Witness:
	Witness:
(6)	Inventor Name: Reiji NIINO
	Signature: Region Trumo
	Today's Date: February 9, 2009
	Witness:
	Witness:

REEL: 022412 FRAME: 0347

RECORDED: 03/18/2009

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