# 501987816 07/13/2012

# PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

# CONVEYING PARTY DATA

Name	Execution Date
Masayuki MOROI	07/13/2012
Hitoshi KIKUCHI	07/13/2012
Masato KOAKUTSU	07/13/2012

# RECEIVING PARTY DATA

Name:	Tokyo Electron Limited
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:	13478304

# CORRESPONDENCE DATA

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Address Line 4: Washington, DISTRICT OF COLUMBIA 20007

ATTORNEY DOCKET NUMBER: 12EL-006

NAME OF SUBMITTER: Chris Tanner

# Total Attachments: 3

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> PATENT REEL: 028543 FRAME: 0385

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Form PTO-1595 (Rev. 07/05) CMB No. 0651-0027 (exp. 6/30/2008) U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office

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PATENTS ONLY				
To the Director of the U.S. Patent and Trademark Office: Pleas	e record the attached documents or the new address(es) below.			
1. Name of conveying party(ies)	2. Name and address of receiving party(ies)			
Masayuki MOROI, Hitoshi KIKUCHI, Masato KOAKUTSU	Name: Tokyo Electron Limited			
	Internal Address:			
Additional name(s) of conveying party(ies) attached? Yes / No 3. Nature of conveyance/Execution Date(s):	Street Address: 3-1, Akasaka 5-chome, Minato-ku.			
Execution Date(s) July 13, 2012	0110017 (dd) 0007.			
✓ Assignment . Merger				
Security Agreement Change of Name	City: Tokyo			
Joint Research Agreement	State:			
Government Interest Assignment				
Executive Order 9424, Confirmatory License	Country: Japan Zip: 107-6325			
Other	Additional name(s) & address(es) attached? Yes Vo			
	document is being filed together with a new application.			
A. Patent Application No.(s)	B. Patent No.(s)			
13/478,304				
Additional numbers at	tached? Yes VNo			
5. Name and address to whom correspondence	6. Total number of applications and patents			
concerning document should be mailed:	involved: 1			
Name: IPUSA, PLLC	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00			
Internal Address:	Authorized to be charged by credit card			
	✓ Authorized to be charged to deposit account			
Street Address: 1054 31st Street, N.W., Suite 400,	Enclosed			
Ottoct/Marcos. 1804-018t-018-018-1190,	None required (government interest not affecting title)			
City: Washington	8. Payment Information			
	a. Credit Card Last 4 Numbers			
State: DC Zip:20007	Expiration Date			
Phone Number:202-797-4181	b. Deposit Account Number 50-4424			
Fax Number: 202-797-8188	Authorized User Name Christopher M. Tanner			
Email Address: ipusa@ipusapat.com				
9. Signature: (M) 1 mm	July 13. 2012			
Signature	' Date			
Christopher M. Tanner Name of Person Signing	Total number of pages including cover sheet, attachments, and documents:			

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:

Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

# ASSIGNMENT

THIS ASSIGNMENT, by (1) Masavuki MOROI, (2) Hitoshi KIKUCHI and (3) Masato KOAKUTSU (hereinafter referred to as "Assignors"), residing at (1) Nirasaki-shi, Yamanashi, Japan. (2) Oshu-shi, Iwate, Japan and (3) Oshu-shi, Iwate, Japan, respectively;

WHEREAS, Assignors have invented certain new and useful improvements in

# TEMPERATURE MEASUREMENT APPARATUS, METHOD OF ESTIMATING TEMPERATURE PROFILE, RECORDING MEDIUM AND HEAT TREATMENT APPARATUS

set forth in a patent application for Letters Patent of the United States, executed concurrently herewith; and

WHEREAS, Tokyo Electron Limited (hereinafter referred to as "Assignce"), having offices at 3-1, Akasaka 5-chome, Minato-ku, Tokyo 107-6325 Japan, is desirous of acquiring the entire right, title and interest in and to said inventions and said application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtained therefor and thereon;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and sufficient consideration, the receipt of which is hereby acknowledged, Assignors have sold, assigned, transferred and set over, and by these presents do sell, assign, transfer and set over, unto Assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions and application for Letters Patent, and in and to any and all direct and indirect divisions, continuations and continuation-in-part of said application, and any and all Letters Patent in the United States and all foreign countries which may be granted therefor and thereon, and reissues, reexaminations and extensions of said Letters Patent, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by the Assignee, for its own use and benefit and the use and benefit of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent may be granted and/or extended, as fully and entirely as the same would have been held and enjoyed by Assignors, had this sale and Assignment not been made;

AND for the same consideration, Assignors hereby represent and warrant to Assignee, its successors legal representatives and assigns, that, at the time of execution and delivery of these presents, except for any rights, titles, and or interests that have arisen to Assignee under the law or that have already been transferred to Assignee, Assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions and application for Letters Patent above-mentioned, and that the same are unencumbered and that Assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth;

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AND for the same consideration, Assignors hereby covenant and agree to and with Assignee, its successors, legal representatives and assigns, that Assigners will sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of any Letters Patent and applications for Letters Patent for said inventions, without charge to Assignee, its successors, legal representatives, and assigns, whenever counsel of Assignee, or counsel of its successors, legal representatives and assigns shall advise; that any proceeding in connection with said inventions, or said patent application for Letters Patent, or any proceeding in connection with any Letters Patent or applications for Letters Patent for said inventions in any country, including but not limited to interference proceedings, is lawful and desirable; or, that any division, continuation or continuation-in-part of any application for Letters Patent, or any reissue, reexamination or extension of any Letters Patent, to be obtained thereon, is lawful and desirable;

AND Assignors hereby request that the Director of the United States Patent and Trademark Office issue said Letters Patent of the United States to Assignee, as Assignee of said inventions and the said Letters Patent to be issued thereon, for the sole use and benefit of Assignee, its successors, legal representatives and assigns;

AND Assignors hereby grant the following individuals 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: All practitioners associated with the Customer Number 77464.

AND Assignors acknowledge an obligation of assignment of this invention to Assignee at the time the invention was made.

July 13, 2012	masayuki moras
Date	Masayuki MOROI
July 13, 2012	Iditoshi Idikuchi
Date	Hitoshi KIKUCHI
July 13, 2012	Masato Koakutsu
Date	Masato KOAKUTSU