

02-23-2004

2/18/04  
TO THE DIRECTOR OF THE US PATENT  
SIR: PLEASE RECORD THE ATTACHE



LY

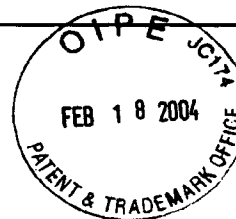
102674708

-REOF.

## 1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

1. Hideaki YAMASAKI  
3. Atsushi GOMI  
5. Mitsuhiro TACHIBANA  
7. Yumiko KAWANO

2. Tsukasa MATSUDA  
4. Tatsuo HATANO  
6. Koumei MATSUZAVA  
8. Gert J. LEUSINK

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☒ NO

## 2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: Tokyo Electron Limited

ADDRESS: 3-6, Akasaka 5-chome, Minato-ku, Tokyo 107, JAPAN

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? ☐ YES ☒ NO

## 3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)

☒ ASSIGNMENT OF ☒ WHOLE ☐ PART INTEREST  
☒ ORIGINAL ☐ FACSIMILE/PHOTOCOPY  
☐ CHANGE OF NAME ☐ VERIFIED TRANSLATION

EXEC. DATE: 1) November 10, 2003; 2)  
November 10, 2003; 3) November 10, 2003; 4)  
November 6, 2003, 5) November 12, 2003; 6)  
November 13, 2003; 7) November 16, 2003; 8)  
October 29, 2003

☐ SECURITY ☐ MERGER ☐ OTHER:

EXECUTION DATE(S) ON THE DECLARATION IF FILED HEREWITH: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!)

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? ☐ YES ☒ NO

A. PAT. APP. NO.(S) series code/serial no	M#	1 <sup>st</sup> INVENTOR if not in item 1	B. PATENT NO(S)	M#	1 <sup>st</sup> INVENTOR if not in item 1
	305915	YAMASAKI			

5. Name & Address of Party to Whom Correspondence  
Concerning Document Should be Mailed:

Pillsbury Winthrop LLP  
Intellectual Property Group  
P.O. Box 10500 McLean, VA 22102

6. NUMBER INVOLVED:

APPLNS 1 + PATS 0 = TOTAL = 1

7. AMOUNT OF FEE DUE: (Code 8021)

ABOVE TOTAL x \$40 = \$40

5.5 ATTY DKT:

P 350915

RAJ-008

8. PLEASE CHARGE TO OUR DEPOSIT ACCOUNT

NUMBER: 03-3975

UNDER ORDER NO

071469

0305915

MATTER NO.

CLIENT REF.

dup. sheet not required

CLIENT NO.

MATTER NO.

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

10. Total number of pages including this  
cover sheet, attachments and document  
(do not file dup. Cover sheet)

4

Signature

Attorney: Dale S. Lazar

Reg. No. 28872

Atty/Sec: DSL/jrh

TEL: (703) 905-2126

Date: February 18, 2004

FAX: (703) 905-2500

FILE WITH PTO RETURN RECEIPT (PAT-103A)

02/23/2004 DBYRME 00000011 033975 10673646

01 FC:0021 40.00 DA

Please return signed/recorded to:  
Pillsbury Winthrop LLP  
Intellectual Property Group  
P.O. Box 10500  
McLean, VA 22102

Atty. Dkt.	PMS 305915	RAJ-008
	M#	Client Ref.

**ASSIGNMENT**  
**of U.S. Origin Patent Application**

WHEREAS, the undersigned, to wit:

1) <u>Hideaki YAMASAKI</u>	2) <u>Tsukasa MATSUDA</u>
3) <u>Atsushi GOMI</u>	4) <u>Tatsuo HATANO</u>
5) <u>Mitsuhiro TACHIBANA</u>	6) <u>Koumei MATSUZAVA</u>
7) <u>Yumiko KAWANO</u>	8) <u>Gert J. LEUSINK</u>

(hereinafter collectively ASSIGNOR), has/have made an invention known as Dkt. 071469-0305915

and entitled: METHOD OF FORMING A METAL LAYER USING AN INTERMITTENT GAS FLOW  
PROCESS

for which an application for Letters Patent of the United States

☐ was executed even date herewith and is about to be filed in the United States Patent and Trademark Office;  
☒ was filed on September 30, 2003, Appln. No. 10/673,646;

AND WHEREAS Tokyo Electron Limited

(hereinafter ASSIGNEE), duly organized and existing under the laws of the State of Japan

and having its principal office and place of business at 3-6, Akasaka 5-chome, Minato-ku, Tokyo 107 JAPAN  
desires to acquire an interest therein;

NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNOR, does hereby sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right, title and interest to the said invention in the United States and all foreign countries, as described in the aforesaid application, and to the said application and to all continuations, divisions, reissues and substitutes of said application, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and ASSIGNOR hereby authorizes and requests the Commissioner of Patents to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns and legal representatives.

AND ASSIGNOR hereby agrees to execute any papers requested by ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

ASSIGNOR furthermore agrees upon request of said ASSIGNEE, and without further remuneration, to execute any and all papers desired by said ASSIGNEE for the filing and granting of foreign applications and the perfecting of title thereto in said ASSIGNEE.

NOTE: The undersigned hereby authorizes Pillsbury Winthrop LLP of the above address to insert hereon any further identification necessary or desirable for recordation of this document.

Executed on the date(s) below indicated.

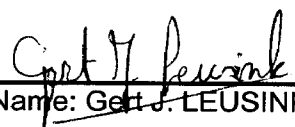
<u>Signature</u>	<u>Date Signed</u>	<u>Witness</u>
1) <u>Hideaki Yamasaki</u> Name: Hideaki YAMASAKI	<u>11.10.2003</u>	<u>Taro Ikeda</u>
2) <u>Tsukasa Matsuda</u> Name: Tsukasa MATSUDA	<u>11.10.2003</u>	<u>Taro Ikeda</u>
3) <u>Atsushi Gomi</u> Name: Atsushi GOMI	<u>11.10.2003</u>	<u>Taro Ikeda</u>
4) <u>Tatsuo Hatano</u> Name: Tatsuo HATANO	<u>11.6.2003</u>	<u>Taro Ikeda</u>
5) <u>Mitsuhiro Tachibana</u> Name: Mitsuhiro TACHIBANA	<u>11.12.2003</u>	<u>Taro Ikeda</u>
6) <u>Koumei Matsuzawa</u> Name: Koumei MATSUZAWA	<u>11.13.2003</u>	<u>Taro Ikeda</u>
7) <u>Yumiko Kawano</u> Name: Yumiko KAWANO	<u>11.26.2003</u>	<u>Taro Ikeda</u>
8) _____ Name: Gert J. LEUSINK	_____	<u>Taro Ikeda</u>

AND ASSIGNOR hereby agrees to execute any papers requested by ASSIGNEE, its successors, assigns and legal representatives, deemed essential to ASSIGNEE's full protection and title in and to the invention hereby transferred.

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<u>Signature</u>	<u>Date Signed</u>	<u>Witness</u>
1) _____ Name: Hideaki YAMASAKI	_____	_____
2) _____ Name: Tsukasa MATSUDA	_____	_____
3) _____ Name: Atsushi GOMI	_____	_____
4) _____ Name: Tatsuo HATANO	_____	_____
5) _____ Name: Mitsuhiro TACHIBANA	_____	_____
6) _____ Name: Koumei MATSUZAVA	_____	_____
7) _____ Name: Yumiko KAWANO	_____	_____
8)  Name: Gerrit J. LEUSINK	6/29/03	