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and the attached original documents or copy thereof.

1. Name of conveying party(ies): Kenjiro HARAKI Hiroyuki YAMAMOTO Satoshi UEMURA Yuji TSUNODA Additional name of conveying party(ies) attached? Yes No

4-18.07

2. Name and address of receiving party(ies) Name: Tokyo Electron Limited Internal Address: Street Address: 3-6, Akasaka 5-Chome Minato-Ku, Tokyo-To, Japan City: State: Zip: Additional Name(s) & address(es) attached? Yes No

3. Nature of conveyance: Assignment Merger Security Agreement Change of Name Other Execution Date: January 22, 2007 (first four inventors)

4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: 1/22/07; 1/22/07; 1/22/07; 1/24/07 and 1/22/07, respectively A. Patent Application No.(s) B. Patent No.(s) Additional numbers attached? Yes No

11/665645

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5. Name and address of party to whom correspondence concerning this document should be mailed: Name: Smith, Gambrell & Russell Internal Address: Street Address: 1850 M Street, N.W. Suite 800 City: Washington State: DC Zip: 20036

6. Total number of applications and patents involved: 1 7. Total fee (37 CFR 3.41) \$ 40 Enclosed Authorized to be charged to deposit account 8. Deposit account number: 02-4300 (Attach duplicate copy of this page if paying by deposit account)

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9. Statement and signature. 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. Michael A. Makuch Signature April 18, 2007 Date Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 4

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

Name of Conveying Party(ies):

Yasushi TAKEUCHI January 24, 2007

Hirofumi KANEKO January 22, 2007

譲渡証 (Translation/日本語訳)

Assignment

下記に署名した私/私達、
は、

ある発明を創出し、これについて合衆国特許出願は

- ここに私/私達により署名され、
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という名称である。そして、ここにその受領を認める対価で：
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差替え出願、再発行出願、特許期間延長等、合衆国とその属領
及び全ての外国に於いて既に出願されたか若しくは今後出願
される特許に関わる全ての権利；そして、国際条約、同盟、契
約、法令、協定(将来制定されるものを含む)に基づく全ての
優先権を伴う一切の権利；を、日本国東京都港区赤坂五丁目3
番6号に住所を有する東京エレクトロン株式会社、その後継
者、譲受人及び法定代理人に対して、売却、譲渡、移転するも
のとする。

さらに、私/私達は、東京エレクトロン株式会社(以下譲受人
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または準法的訴訟手続に於いて証言を行うこと；当該発明とそ
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許出願に際し、当該譲受人、後継者、被譲渡者、及び法定代
理人に対して法的権限を付与することが望ましいと考慮するこ
とについて、可能な限り行うことを承諾する。

For good and valuable consideration, the receipt of which is
hereby acknowledged, I/WE, the undersigned,

Kenjiro HARAKI, Hiroyuki YAMAMOTO, Satoshi
UEMURA, Yuji TSUNODA, Yasushi TAKEUCHI and
Hirofumi KANEKO,

who have created a certain invention for which an application for
United States Letters Patent

- executed by ME/US on even date herewith,
- executed by ME/US on _____,
(respectively),
- filed on _____ and assigned
Serial No. _____,
- filed as International Application No.
PCT/JP2005/019039
filed on October 17, 2005,

and entitled:

**VERTICAL HEAT TREATMENT APPARATUS
AND METHOD FOR OPERATING THE SAME**

Do hereby sell, assign and transfer to TOKYO ELECTRON
LIMITED, a corporation of Japan, having a place of business at
3-6, Akasaka 5-Chome, Minato-Ku, Tokyo-To, Japan, its
successors, assigns, and legal representatives, the full and
exclusive right to said invention and said application and to any
and all inventions described in said application for the United
States, its territorial possessions and all foreign countries, and
the entire right, title and interest in and to any and all Letters
Patent which may be granted therefor in the United States, its
territorial possessions and all foreign countries; and in and to any
and all continuations-in-part, continuations, divisions, substitutes,
reissues, extensions thereof, and all other applications for Letters
Patent relating thereto which have been or shall be filed in the
United States, its territorial possessions and/or any foreign
countries, and all rights, together with all priority rights, under any
of the international conventions, unions, agreements, acts, and
treaties, including all future conventions, unions, agreements,
acts, and treaties;

Agree that TOKYO ELECTRON LIMITED, hereinafter referred to
as Assignee, may apply for and receive Letters Patent for said
invention and said inventions, hereinafter referred to as said
invention, in its own name, in the United States, its territorial
possessions, and all foreign countries; and that, when requested
to carry out in good faith the intent and purpose of this
assignment, at the expense of said Assignee, its successors,
assigns and legal representatives, the undersigned will execute all
continuations-in-part, continuations, divisions, substitutes,
reissues, extensions thereof, execute all rightful oaths,
assignments, powers of attorney and other papers, testify in any
legal or quasi legal proceedings; communicate to said Assignee,
its successors, assigns or legal representatives all facts known to
the undersigned relating to said invention and the history thereof;
and generally do everything possible which said Assignee, its
successors, assigns, or legal representatives shall consider
desirable for aiding in securing, maintaining and enforcing proper
patent protection for said invention and for vesting title to said
invention and all applications for patents on said invention in said
Assignee, its successors, assigns, or legal representatives; and

そして、私/私達は、この書面により譲渡された権利や財産に影響する、如何なる譲渡、授權、抵当権、ライセンス等その他の協定も他の第三者との間で行っていないこと；下記に署名した私/私達によって、この書面に記載されている権利が所有されていることを、当該譲受人、後継者、被譲渡者、及び法定代理人に対して誓約するものである。

さらに、下記に署名した私/私達はこの譲渡書は英語の部分の表現によってのみ解釈されることに同意する。

上記を証明するため、私/私達は下記日付で署名する。

Covenant with said Assignee, its successors, assigns, or 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.

I/WE, the undersigned do further agree that this Assignment is to be construed solely according to the terms of the English language portions thereof.

IN TESTIMONY WHEREOF I/WE have hereunto set MY/OUR signature seal on the date indicated below.

唯一または第一発明者名	Full name of sole or first inventor Kenjiro HARAKI
発明者の署名	Inventor's signature <i>Kenjiro Haraki</i>
日付	Date Jan. 22, 2007
第二共同発明者 (いる場合)	Full name of second joint inventor, if any Hiroyuki YAMAMOTO
第二共同発明者の署名	Second Inventor's signature <i>Hiroyuki Yamamoto</i>
日付	Date Jan. 22, 2007
第三共同発明者 (いる場合)	Full name of third joint inventor, if any Satoshi UEMURA
第三共同発明者の署名	Third Inventor's signature <i>Satoshi Uemura</i>
日付	Date Jan. 22, 2007
第四共同発明者 (いる場合)	Full name of fourth joint inventor, if any Yuji TSUNODA
第四共同発明者の署名	Fourth Inventor's signature <i>Yuji Tsunoda</i>
日付	Date Jan. 22, 2007
第五共同発明者 (いる場合)	Full name of fifth joint inventor, if any Yasushi TAKEUCHI
第五共同発明者の署名	Fifth Inventor's signature <i>Yasushi Takeuchi</i>
日付	Date Jan. 24, 2007
第六共同発明者 (いる場合)	Full name of sixth joint inventor, if any Hirofumi KANEKO
第六共同発明者の署名	Sixth Inventor's signature <i>Hirofumi Kaneko</i>
日付	Date Jan. 22, 2007