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U.S. Department of Commerce  
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**PATENT**

jcs525 U.S. PTO  
09/532446

**Conveying Party(ies)**

7. Akira Yamada  
8. Masayoshi Tarutani  
9.  
10.  
11.  
12.

**Execution Date(s)**

March 13, 2000  
March 13, 2000

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**Application Number(s) or Patent Number(s)**
☐ Mark if additional numbers attached

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**Patent Application Numbers****Patent Numbers**


If this document is being filed together with a *new* Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year  
3/13/2000

**Patent Cooperation Treaty (PCT)**

Enter PCT application number *only if* a U.S. Application Number has not been assigned.

PCT	PCT	PCT
PCT	PCT	PCT

ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned,

Shigeru Matsuno, Takehiko Sato, Akira Yamada  
and Masayoshi Tarutani, all residing at

~~of~~ c/o MITSUBISHI DENKI KABUSHIKI KAISHA, 2-3, Marunouchi 2-chome,  
Chiyoda-ku, TOKYO 100-8310 JAPAN

hereby sells, assigns and transfers to

mitsubishi denki kabushiki kaisha

of 2-3, Marunouchi 2-chome, Chiyoda-ku, TOKYO 100-8310 JAPAN

(hereinafter called the Assignee), its successors and assigns, the entire right, title, and interest in and to:

- (i) the application for United States Letters Patent entitled:  
VAPORIZING DEVICE FOR CVD SOURCE MATERIALS  
AND CVD APPARATUS EMPLOYING THE SAME

which was executed by the undersigned on  
March 13, 2000, ~~1999~~ or was filed on  
\_\_\_\_\_ and accorded Serial  
No. \_\_\_\_\_ (hereinafter called the Application);

- (ii) any and all inventions and improvements which are described in the Application;
- (iii) any and all United States Letters Patents which may be granted on the Application (hereinafter called the Patent);
- (iv) any and all divisions, continuations, substitutes, reexaminations, reissues, or extensions of the Application or Patent; and
- (v) all benefits under the International Convention for the Protection of Industrial Property.

The Assignee and its agents are hereby authorized to insert in this instrument the filing date and serial number of said application.

It is hereby authorized and requested that the Commissioner of Patents issue any and all of said Letters Patent, when granted, to said Assignee.

Further, it is agreed that, when requested, without charge to but at the expense of said Assignee, the undersigned will execute all divisional, continuing, substitute, or reissue patent applications; execute all additional assignments and other writings, including reexamination papers; and provide all reasonable assistance requested by the Assignee to secure and maintain appropriate patent protection.

Signed at TOKYO, JAPAN

this 13th day of March, 2000 .

WITNESS(ES):

INVENTOR(S):

Akita Yamada

Shigematsu

Shigematsu  
Takehiko Sato

Takehiko Sato

Shigematsu

Akita Yamada

Shigematsu

Masayoshi Tanaka

## ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00), and other good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned,

Mikio Yamamuka, Tsuyoshi Horikawa, Takaaki Kawahara  
and Fusaoki Uchikawa, all residing at

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Chiyoda-ku, TOKYO 100-8310 JAPAN

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Shigeru Matsuno

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