

06-09-1998

EET

Attorney Docket
No.: 6154-71
(US-480)

09/08/1684
memo 5.20.98



100730281

To the Assistant Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

**Kazushige Takahashi
Osamu Kano**

2. Name and address of receiving party(ies):

**Japan Energy Corporation
10-1, Toranomom 2-chome
Minato-ku, Tokyo
JAPAN**



3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other:

Execution Date: **May 11, 1998**

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: **May 11, 1998**

A. Patent Application No.(s):

B. Patent No.(s):

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence document should be mailed:

**WILLIAM W. SCHWARZE
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Facsimile: (215) 567-2991
E-Mail: psjn@psjn.com**

6. Total number of applications and patents involved: [1]

7. Total fee (37 CFR 3.41) Cal. 1 x \$40.00 = \$ **40.00**

Enclosed
 Authorized to be charged to deposit account

8. Deposit account number: **16-0235**

05/05/1998 BNGUYEN 00000061 160235 09081684
FC:581 40.00 CH

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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.

WILLIAM W. SCHWARZE
Name of Person Signing

William W. Schwarze
Signature

May 20, 1998
Date

Total number of pages including cover sheet, attachments and document: [1]

A S S I G N M E N T

WHEREAS, we,

Kazushige Takahashi, a citizen of Japan, c/o Japan Energy Corporation, Isohara Plant, 187-4, Usuba, Hanakawa-cho, Kitaibaraki-shi, Ibaraki-ken, Japan

Osamu Kano, a citizen of Japan, c/o Japan Energy Corporation, Isohara Plant, 187-4, Usuba, Hanakawa-cho, Kitaibaraki-shi, Ibaraki-ken, Japan

have invented certain new and useful improvements in

HIGH-PURITY COPPER SPUTTERING TARGETS AND THIN FILMS

for which we have on May 11, 1998 executed an application for United States Letters Patent; and

WHEREAS, Japan Energy Corporation, a Japanese Corporation, located at

10-1, Toranomon 2-chome, Minato-ku, Tokyo, Japan

(hereinafter called the "Assignee"), is desirous of acquiring the entire right, title and interest in and to said application and the inventions and improvements therein disclosed so far as the United States of America is concerned.

NOW, THEREFORE, in good and valuable consideration paid to us by said Assignee, receipt whereof is hereby acknowledged, we do hereby assign, sell, transfer and set over unto said Assignee the entire right, title and interest in and to said application and the inventions and improvements therein disclosed for the United States and any Letters Patent which may issue therefor in the United States and all divisions, re-issues, continuations, renewals and/or extensions thereof, said Assignee to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, re-issues, continuations, renewals and/or extensions thereof, respectively, a fully and entirely as the same would have been held and enjoyed by us had this Assignment not been made.


The Commissioner of Patents and Trademarks is requested to issue such Letters Patent in accordance herewith. We covenant that we are the lawful owners of the said application, and of the right to make, use or sell the inventions and improvements disclosed therein within the United States and that we have the full right to make this Assignment.

PATENT

REEL: 9213 FRAME: 0332

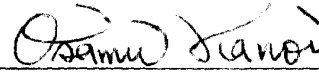
And for the consideration aforesaid, we agree that we will communicate to said Assignee or the representatives thereof any facts known to us respecting the inventions and improvements of the said United States application and will, upon request, but without expense to us, testify in any legal proceedings, sign all lawful papers, execute all divisional, re-issue, continuation, renewal and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts deemed necessary or expedient by said Assignee or by counsel for said Assignee, to assist or enable said Assignee to obtain and enforce full benefits from the rights and interest herein assigned. This Assignment shall be binding upon our heirs, executors, administrators and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said Assignee.

Executed at Ibaraki,
this 11th day of May, 1998



Kazushige Takahashi

Executed at Ibaraki,
this 11th day of May, 1998



Osamu Kano