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

1. Name of conveying party(ies):

Takuya AMANO, Akira KONDO and Ken TAKIZAWA

Additional name(s) of conveying party(ies) attached?
☐ yes ☒ no

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

Name:
JAPAN ENERGY CORPORATION
Internal Address:
10-1, Toranomon 2-chome, Minato-ku, Tokyo, Japan
Street Address:
Same as above

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: November 18, 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:

A. Patent Application No.(s)
09/134,816

B. Patent No(s).

Additional numbers attached? ☐ Yes ☒ No

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

SUGHRUE, MION, ZINN, MACPEAK & SEAS
2100 Pennsylvania Avenue, N.W.
Suite 800
Washington, D.C. 20037-3202

6. Total number of applications and patents involved:
One (1)

7. Total Fee (37 CFR 3.41): \$ 40.00
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Name Darryl Mexic Reg. No. 23,063

November 30, 1998
Date

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PATENT
REEL: 9657 FRAME: 0399

ASSIGNMENT

Whereas, I/We, Takuya AMANO of Saitama, Japan,
Akira KONDO of Tokyo, Japan and
Ken TAKIZAWA of Toyama, Japan

of

hereinafter called assignor(s), have invented certain improvements in
ROTARY TYPE HEAT TREATMENT DEVICE, AND TEMPERATURE CONTROL METHOD
FOR THE DEVICE

and executed an application for Letters Patent of the United States of America therefor on

November 18, 1998; and

Whereas, JAPAN ENERGY CORPORATION of
10-1, Toranomom 2-chōme, Minato-ku, Tokyo, Japan

(assignee), desires to acquire the entire right, title and interest in the application and invention, and
to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We the above named assignor(s), hereby sell, assign and transfer to the above named
assignee, its successors and assigns, the entire right, title and interest in the application and the
invention disclosed therein for the United States of America, including the right to claim priority under
35 U.S.C. § 119, and I/we request the Commissioner of Patents to issue any Letters Patent granted
upon the invention set forth in the application to the assignee, its successors and assigns; and I/we
will execute without further consideration all papers deemed necessary by the assignee in connection
with the United States application when called upon to do so by the assignee.

I/We hereby authorize and request my attorneys SUGHRUE, MION, ZINN, MACPEAK & SEAS
of 2100 Pennsylvania Avenue, N.W., Washington, D.C. 20037-3202 to insert here in parentheses
(Application number 09/134,816 filed August 17, 1998) the filing
date and application number of said application when known.

Date: November 18, 1998s/

Takuya AMANO
Takuya AMANO

Date: November 18, 1998s/

Akira KONDO
Akira KONDO

Date: November 18, 1998s/

Ken TAKIZAWA
Ken TAKIZAWA

Date:

s/

Date:

s/