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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

5.17.01

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

1. Name of conveying party(ies):

Kenji OTSUKA, Naoki MURANAGA, Satoshi ARAKAWA, and Tomohisa IKEDA

Additional name(s) of conveying party(ies) attached? Yes No

3. Nature of Conveyance:

- Assignment
- Security Agreement
- Other
- Merger
- Change of Name

Execution Date: November 7, 2000

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

Name: Japan Pionics Co., Ltd.

Address: 1-3, Nishishinbashi 1-chome, Minato-ku. Tokyo, Japan

Additional name(s) and address(es) attached? Yes No

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: N/A

A. Patent Application No.(s)
09/716,401

B. Patent No.(s)

Additional numbers attached? Yes No

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



22850

6. Total applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00 E

- Enclosed
- Authorized to be charged to deposit account

8. Deposit account number: 15-0030
(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.

Norman F. Oblon

Name of Person Signing

Registration Number: 24,618

Norman F. Oblon

Signature ~~Registration Number 30,996~~

Date

May 17, 2001

Total number of pages including this cover sheet: 3

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Commissioner of Patents and Trademarks
Box Assignments
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PATENT
REEL: 011808 FRAME: 0476

09/716,401

Assignment Of Application

WHEREAS, I (WE) (1) Kenji OTSUKA, (2) Naoki MURANAGA, (3) Satoshi ARAKAWA
and (4) Tomohisa IKEDA

INSERT NAMES
AND RESIDENCE
ADDRESSES OF
THE INVENTORS:

residing at _____
all of c/o Japan Pionics Co., Ltd., Hiratsuka Laboratory, 5181,
Tamura, Hiratsuka-shi, Kanagawa-ken, Japan

_____, respectively,

INSERT TITLE
OF INVENTION:

have invented certain new and useful improvements in: _____
METHOD OF CLEANING OF HARMFUL GAS AND CLEANING APPARATUS _____,

INSERT DATE IN-
VENTORS SIGNED
DECLARATION:

for which an application for Letters Patent was executed on November 7, 2000
(Application No. 09/716,401 _____, filed November 21, 2000 _____), and

INSERT NAME
AND ADDRESS OF
COMPANY OR
OTHER ASSIGNEE:

WHEREAS, Japan Pionics Co., Ltd.
(hereinafter referred to as "ASSIGNEE") having a place of business at: _____
1-3, Nishishinbashi 1-chome, Minato-ku, Tokyo, Japan _____,
is desirous of acquiring the entire right, title and interest in and to said invention and in and to any
Letters Patent that may be granted therefor in the United States and its territorial possessions and in
any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in 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 and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

04/16, H01

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of Fourth Floor, 1755 Jefferson Davis Highway, Arlington, Virginia 22202 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: November 7, 2000

Kenji Otsuka
(Signature of Inventor) Kenji OTSUKA

Date: November 7, 2000

Naoki Muranaga
(Signature of Inventor) Naoki MURANAGA

Date: November 7, 2000

Satoshi Arakawa
(Signature of Inventor) Satoshi ARAKAWA

Date: November 7, 2000

Tomohisa Ikeda
(Signature of Inventor) Tomohisa IKEDA

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

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