

05-12-1999

5.6.99



To the Assistant Commissioner for Patents: Please

or copy(ies) thereof.

1. Name of conveying party(ies):

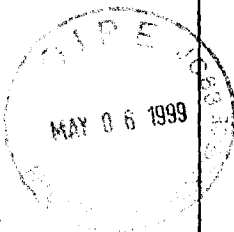
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of receiving party(ies):

Shigemi MANDAI, Koichi NISHIDA, Masataka OTA,  
Satoshi TANIMURA, Kotaro MIYAUCHI, Mitsuru INADA,  
Shinji AKAMATSU and Hideki HARUTA

Name: Mitsubishi Heavy Industries, Ltd.

Street Address: 5-1, Marunouchi 2-chome,  
Chiyoda-ku, Tokyo, Japan



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

3. Nature of conveyance:

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

Execution Date: April 23, 1999

Additional name(s) & address(es) attached? 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:

A. Patent Application No.(s)

09/244,031

B. Patent No.(s)

Additional numbers attached? No

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

Name: WENDEROTH, LIND & PONACK, L.L.P.

Internal Address: Attn: Mr. Nils E. Pedersen

Street Address: 2033 K Street, N.W., Suite 800

City: Washington, D.C. ZIP: 20006

6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R. § 3.41). . . . . \$ 40.00

Enclosed [Check No. 33239]

Authorized to be charged to deposit account

8. Deposit account number: 23-0975

(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.

Nils E. Pedersen, Reg. No. 33,145

Name of Person Signing

Signature

May 6, 1999

Date

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

Mail documents to be recorded with required cover sheet information to:

05/10/1999 DNGUYEN 00000218 09244031

FC:581

(40.00 DP)

Commissioner of Patents and Trademarks  
Box Assignments  
Washington, D.C. 20231

THE COMMISSIONER IS ADVISED  
TO CHARGE ANY DEFICIENCY IN THE  
FEE FOR THIS PAPER TO DEPOSIT  
ACCOUNT NO. 23-0975.

# ASSIGNMENT

In consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned

**Insert Name(s)  
of Inventor(s)**

Shigemi MANDAI, Koichi NISHIDA,  
Masataka OTA, Satoshi TANIMURA,  
Kotaro MIYAUCHI, Mitsuru INADA,  
Shinji AKAMATSU and Hideki HARUTA

the undersigned hereby sell(s) and assign(s) to

**Insert Name(s)  
of Assignee(s)**

Mitsubishi Heavy Industries, Ltd.

**Address**

of 5-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo, Japan

(hereinafter designated as the Assignee) the entire right, title and interest for the United States as defined in 35 USC 100, in the invention known as

**Title of  
Invention**

COMBUSTOR

**Date of Signing  
of Application**

for which an application for patent in the United States has been executed by the undersigned on  
April 23, 1999

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division or reissue thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed, and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of WENDEROTH, LIND & PONACK, L.L.P., 2033 K Street, N.W., Suite 800, Washington, DC 20006, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date April 23, 1999, Name of Inventor Shigemi Mandai  
 Shigemi Mandai

Date April 23, 1999, Name of Inventor Koichi Nishida  
 Koichi Nishida

Date April 23, 1999, Name of Inventor Masataka Ota  
 Masataka Ota

Date April 23, 1999, Name of Inventor Satoshi Tanimura  
 Satoshi Tanimura

Date April 23, 1999, Name of Inventor Kotaro Miyauchi  
 Kotaro Miyauchi

Date April 23, 1999, Name of Inventor Mitsuru Inada  
 Mitsuru Inada

(This assignment should preferably be acknowledged before a United States Consul. If not, then the execution by the Inventor(s) should be witnessed by at least two witnesses who sign here.)

Witness Shouichi Kikawa

Witness Tatsuya Mori

### ACKNOWLEDGEMENT

\_\_\_\_\_ } ss  
 \_\_\_\_\_ }

This \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me  
 personally came the above-named \_\_\_\_\_

to me personally known as the individual(s) who executed the foregoing assignment, who did acknowledge to me that he (they) executed the same of his (their) own free will for the purposes therein set forth.

SEAL

\_\_\_\_\_  
 Official Signature

\_\_\_\_\_  
 Official Title

The above application may be more particularly identified as follows:

U.S. Application Serial No. \_\_\_\_\_ Filing Date \_\_\_\_\_

Applicant Reference Number \_\_\_\_\_ Atty Docket No. \_\_\_\_\_

Title of Invention \_\_\_\_\_

The undersigned hereby grant(s) the firm of WENDEROTH, LIND & PONACK, L.L.P., 2033 K Street, N.W., Suite 800, Washington, DC 20006, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date April 23, 1999, Name of Inventor Shinji Akamatsu  
 Shinji Akamatsu

Date April 23, 1999, Name of Inventor Hideki Haruta  
 Hideki Haruta

Date \_\_\_\_\_, Name of Inventor \_\_\_\_\_

Date \_\_\_\_\_, Name of Inventor \_\_\_\_\_

Date \_\_\_\_\_, Name of Inventor \_\_\_\_\_

Date \_\_\_\_\_, Name of Inventor \_\_\_\_\_

(This assignment should preferably be acknowledged before a United States Consul. If not, then the execution by the Inventor(s) should be witnessed by at least two witnesses who sign here.)

Witness Shouichi Kobayashi

Witness Tatsuya Mori

### ACKNOWLEDGEMENT

\_\_\_\_\_ }  
 \_\_\_\_\_ } ss

This \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_, before me  
 personally came the above-named \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

to me personally known as the individual(s) who executed the foregoing assignment, who did acknowledge to me that he (they) executed the same of his (their) own free will for the purposes therein set forth.

\_\_\_\_\_ Official Signature  
 \_\_\_\_\_ Official Title

SEAL

The above application may be more particularly identified as follows:

U.S. Application Serial No. \_\_\_\_\_ Filing Date \_\_\_\_\_  
 Applicant Reference Number \_\_\_\_\_ Atty Docket No. \_\_\_\_\_  
 Title of Invention \_\_\_\_\_  
 \_\_\_\_\_