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U.S. DEPARTMENT OF COMMERCE U.S. Patent and Trademark Office Atty. Docket: ASAIN0113

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

1. Name of conveying party(ies): Tsutomu OISHI 8.2.02

2. Name and address of receiving party(ies) Name: Ishikawajima-Harima Heavy Industries, Co. LTD. Internal Address: 2-1, 2-chome, Otemachi, Chiyoda-ku, Tokyo, JAPAN

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

3. Nature of conveyance: Assignment Merger Security Agreement Change of Name Other

Street Address: SAME AS ABOVE

City: State: Zip:

Execution Date: July 9, 2002

Additional name(s) & 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: 08/01/2002

A. Patent Application No.(s) 10182900

B. Patent No.(s)

Additional numbers attached? Yes No

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

Name: GRIFFIN & SZIPL, P.C.

Internal Address:

Street Address: Suite PH-1, 2300 Ninth Street, South

City: Arlington State: VA Zip: 22204-2320

6. Total number of applications and patents involved: 1

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

Enclosed Authorized to be charged to deposit account

8. Deposit account number:

50-1281

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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.

Joerg-Uwe Szpl, Reg. No. 31,799

Name of Person Signing

Signature

August 2, 2002

Date

Total number of pages including cover sheet, attachments, and documents: 2

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

PATENT REEL: 014232 FRAME: 0441

ASSIGNMENT

A6589US

The undersigned (hereinafter collectively referred to as "ASSIGNOR"), in consideration of the sum of Ten Dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, hereby sells, assigns and transfers to

(1) Ishikawajima-Harima Heavy Industries Co., Ltd.  
(Name of Assignee)

(hereinafter referred to as "ASSIGNEE"), residing at \_\_\_\_\_  
(Insert address or principle place of business)

(1) 2-1, 2-chome, Otemachi, Chiyoda-ku, Tokyo, Japan

( \_\_\_\_\_ ,

the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention (hereinafter "INVENTION") entitled:

LOBE MIXER FOR JET ENGINES  
(Type in Title of Invention)

\_\_\_\_\_ ,

for which Assignor has executed an application for United States Patent

on this date (check if assignment and application are executed on same date)

on [ \_\_\_\_\_ ] (check if Assignment is executed after application)  
Month/Day/Year

filed on [ \_\_\_\_\_ ]  
Month/Day/Year

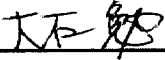
as United States Patent Application No. [ \_\_\_\_\_ ]  
(Insert if known)

(check if Assignment is executed after filing of Application.)

and all applications on the INVENTION, including any and all divisions, continuations, substitutes and reissues thereof, and all resulting patents on the INVENTION;

ASSIGNOR hereby agrees to testify and to execute any papers for ASSIGNEE, its successors, assigns and legal representatives, deemed essential by ASSIGNEE to ASSIGNEE'S full protection of and title in and to the INVENTION hereby transferred; and

ASSIGNOR hereby authorizes Joerg-Uwe Szipl and Griffin, Butler, Whisenhunt & Kurtossy to insert in this ASSIGNMENT any further information necessary or desirable for recordation.

<u>Full Name of the Inventor(s)</u> <small>(Please type)</small>	<u>Signature</u>	<u>Date Signed</u>	<u>Witness(es)</u>
(1) <u>Tsutomu OISHI</u>	<u></u>	<u>July 09, 2002</u>	<u>M. Hotta</u>
(2) _____	_____	_____	_____
(3) _____	_____	_____	_____
(4) _____	_____	_____	_____

Check if additional pages are attached.

\* For use with non-U.S. inventors.