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FORM PTO-1595

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RE



SHEET

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OMB No. 0651-0011 (exp. 4/94)

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To the Assistant Commissioner for Patents:  
Please record the attached original documents or copy thereof.

11/26/01  
09/99/093  
PTO

1. Name of conveying party(ies):

Masatoshi KATAYAMA, Takafumi ORIGANE  
and Kenji MATSUDA

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

2. Name and address of receiving party(ies)

Name: TAKUMA CO., LTD.

Street Address: 1-3-23, Dojimahama, Kita-ku,  
Osaka, Japan

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

3. Nature of conveyance:

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

Execution Date: November 13, 2001

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: November 13, 2001

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: Russell D. Orkin

Internal Address: Webb Ziesenheim Loqsdon  
Orkin & Hanson, P.C.

Street Address: 700 Koppers Building  
436 Seventh Avenue

City: Pittsburgh State: PA ZIP: 15219-1818

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:

(Attach triplicate 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.

Russell D. Orkin  
Name of Person Signing  
Reg. No. 25,363

*Russell D. Orkin*  
Signature

November 26, 2001  
Date

Total number of pages including cover sheet, attachments and document

3

Mail documents to be recorded with required cover sheet information to:  
Assistant Commissioner for Patents, Box Assignments

PATENT  
REEL: 012328 FRAME: 0049

## ASSIGNMENT

WHEREAS, Masatoshi KATAYAMA, Takafumi ORIGANE and  
Kenji MATSUDA

whose post office addresses appear below (hereinafter (collectively) referred to as ASSIGNOR), has (have) invented certain new and useful improvements in an

ABSORPTION WASTE-HEAT RECOVERY SYSTEM

(TITLE OF INVENTION)

(hereinafter referred to as THE INVENTION) for which an application for United States Letters Patent was filed on \_\_\_\_\_, Serial Number \_\_\_\_\_;

WHEREAS, TAKUMA CO., LTD.

whose post office address is 1-3-23, Dojimahama, Kita-ku, Osaka, Japan

(and)

whose post office address is \_\_\_\_\_ (hereinafter (collectively) referred to as ASSIGNEE), is desirous of acquiring the entire right, title and interest in and to the same in the United States and throughout the world;

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, we, ASSIGNOR, by these presents do sell, assign and transfer until said ASSIGNEE, the entire right, title and interest in and to said invention and application throughout the United States of America, including any and all United States Letters Patent granted on any division, continuation, continuation-in-part and reissue of said application; and the entire right, title and interest in and to said invention throughout the world, including the right to apply for patents and inventor certificates in respect thereof and to claim priority pursuant to rights accorded ASSIGNOR under the terms of the Paris International Convention and all other available international conventions and treaties; and the entire right, title and interest in and to any and all patents, patents of addition, utility models, patents of importation, revalidation patents and inventor certificates which may be granted throughout the world in respect of said invention.

ALSO, ASSIGNOR hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent application(s) or inventor certificate(s) in the United States and in foreign countries for said invention, including additional documents that may be required to affirm the rights of ASSIGNEE in and to said invention, all without further consideration. ASSIGNOR also agrees, without further consideration and at ASSIGNEE'S expense, to identify and communicate to ASSIGNEE at ASSIGNEE'S request documents and information concerning the invention that are within ASSIGNOR'S possession or control, and to provide further assurances and testimony on behalf of ASSIGNEE that lawfully may be required of ASSIGNOR in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument. ASSIGNOR'S obligations under this instrument shall extend to ASSIGNOR'S heirs, executors, administrators and other legal representatives.

ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent referred to above to ASSIGNEE of the entire right, title and interest in and to the same, for ASSIGNEE'S sole use and behoof; and for the use and behoof of ASSIGNEE'S legal representatives and successors, to the full end of the term for which such Letters Patent may be granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.

See following pages for additional assignors

Full Name of First Assignor	Masatoshi KATAYAMA	
Residence Address - Street	c/o TAKUMA CO., LTD., Kyoto Plant 600-1, Kuzetonoshirocho	
City	Minami-ku, Kyoto	
State or Country	Japan	Zip
DATE	November 13, 2001	SIGNATURE <i>Masatoshi Katayama</i>

ASSIGNMENT  
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Full Name of 2nd Assignor		Takafumi ORIGANE	
Residence Address - Street		c/o TAKUMA CO., LTD., Kyoto Plant 600-1, Kuzetonoshirocho	
City		Minami-ku, Kyoto	
State or Country		Japan	
DATE		SIGNATURE	
November 13, 2001		<i>Takafumi Origane</i>	

Full Name of 3rd Assignor		Kenji MATSUDA	
Residence Address - Street		c/o TAKUMA CO., LTD. 2-2-33, Kinrakujicho	
City		Amagasaki-shi, Hyogo-ken	
State or Country		Japan	
DATE		SIGNATURE	
November 13, 2001		<i>Kenji Matsuda</i>	

Full Name of 4th Assignor			
Residence Address - Street			
City			
State or Country		Zip	
DATE		SIGNATURE	

Full Name of 5th Assignor			
Residence Address - Street			
City			
State or Country		Zip	
DATE		SIGNATURE	