

# PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Takahiro MURAKAMI	05/28/2007
Koubun KYO	05/14/2007
Toshiyuki SUDA	05/23/2007
RECEIVING PARTY DATA	
Name:	Ishikawajima-Harima Heavy Industries Co., Ltd.
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City:	Tokyo
State/Country:	JAPAN
Postal Code:	135-8710
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	11813250
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ATTORNEY DOCKET NUMBER:	310532US3PCT
NAME OF SUBMITTER:	Tirhas Gessesse
Total Attachments: 2 source=310532usAssignment#page1.tif source=310532usAssignment#page2.tif	

OP \$40.00 11813250

**PATENT**

**500307347**

**REEL: 019506 FRAME: 0993**

## Assignment of Application

INVENTOR'S NAME  
D RESIDENCE  
DRESS OF  
E INVENTORS:

WHEREAS, I (WE) Takahiro MURAKAMI, c/o Ishikawajima-Harima Heavy Industries Co., Ltd., 1-1, Toyosu  
3-chome, Koto-ku, Tokyo 135-8710 Japan, Koubun KYO, c/o Ishikawajima-Harima Heavy  
Industries Co., Ltd., 1-1, Toyosu 3-chome, Koto-ku, Tokyo 135-8710 Japan and Toshiyuki SUDA,  
c/o Ishikawajima-Harima Heavy Industries Co., Ltd., 1-1, Toyosu 3-chome, Koto-ku, Tokyo  
135-8710 Japan

, respectively,

INVENTOR'S TITLE OF  
INVENTION:

have invented certain new and useful improvements in: METHOD AND DEVICE FOR MEASURING CIRCULATION  
QUANTITY OF BED MATERIAL IN CIRCULATING FLUIDIZED BED COMBUSTOR

INVENTOR'S DATE  
INVENTORS SIGNED  
DECLARATION:

For which an application for Letters Patent was executed on \_\_\_\_\_

(Application No. 11/813,250, filed July 2, 2007), and

WHEREAS, Ishikawajima-Harima Heavy Industries Co., Ltd.

INVENTOR'S NAME  
D ADDRESS OF  
MPANY OR  
HER ASSIGNEE

(hereinafter referred to as "ASSIGNEE") having places of business at: 1-1, Toyosu 3-chome, Koto-ku, Tokyo 135-8710  
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 therefore 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.

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.

10/01

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 1940 Duke Street, Alexandria, Virginia 22314 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: May 28, 2007

Takahiro Murakami  
(Signature of Inventor) Takahiro Murakami

Date: May 14, 2007

Koubun Kyo  
(Signature of Inventor) Koubun Kyo

Date: May 23, 2007

Toshiyuki Suda  
(Signature of Inventor) Toshiyuki Suda

Date: \_\_\_\_\_

\_\_\_\_\_  
(Signature of Inventor)

Date: \_\_\_\_\_

\_\_\_\_\_  
(Signature of Inventor)

Date: \_\_\_\_\_

\_\_\_\_\_  
(Signature of Inventor)

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.  
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