501868704 03/28/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Miki OKAMURA	03/15/2012
Ryo SHIMIZU	03/15/2012
Yasuhiro ISHIKAWA	03/15/2012

RECEIVING PARTY DATA

Name:	SUMITOMO OSAKA CEMENT CO., LTD.
Street Address:	6-28, Rokuban-cho
City:	Chiyoda-ku, Tokyo
State/Country:	JAPAN
Postal Code:	102-8465

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13498589

CORRESPONDENCE DATA

Fax Number: (612)332-9081 Phone: 612-332-5300

Email: cmanthie@merchantgould.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US

Mail.

Correspondent Name: Dianna G. El Hioum
Address Line 1: P.O. BOX 2903
Address Line 2: Merchant & Gould P.C.

Address Line 4: MINNEAPOLIS, MINNESOTA 55402-0903

ATTORNEY DOCKET NUMBER: 13869.82FPWO

NAME OF SUBMITTER: Dianna G. El Hioum

Total Attachments: 2

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PATENT REEL: 027942 FRAME: 0209 OP \$40.00 13498589

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INSTRUCTIONS

U.S. ASSIGNMENT TO CORPORATION

WHEREAS,

Inventor(s) Name, Address, Citizenship

- 1. Miki OKAMURA residing at Tokyo, Japan and a citizen of Japan; 2. Ryo SHIMIZU residing at Tokyo, Japan and a citizen of Japan;
- 3. Yasuhiro ISHIKAWA residing at Tokyo, Japan and a citizen of Japan

in the requested information:

Check the appropriate box and fill (herein called "THE UNDERSIGNED") have made an invention and have executed an application for Letters Patent of the United States entitled

select the first check box if the application is a national stage of a PCT application and provide the international application number and filing date before sending the assignment for execution;

OPTICAL WAVEGUIDE DEVICE

- select the second check box if the application will and which: be filed without the executed assignment once the assignment is executed and the serial number and filing date of the U.S. application are known, provide this information before recordation;
- select the third check box if the application was previously filed and provide the serial number and filing date before sending the assignment for execution; or
- select the fourth check box if the application will be filed with the application.

HICH.					
	is the national stage application of International Application No.				
PCT/JP2010/0	66580 filed on September 24, 2	<u>2010;</u>			
will be filed w	ithout this executed PATENT AS	SSIGNMENT. THE			
UNDERSIGN	ED hereby authorizes, and reques	sts, ASSIGNEE'S			
legal representatives, of Merchant & Gould PC, who are associated					
with customer	number 23552, to insert here in p	parenthesis (U.S.			
Serial No	, filed) this			
application's U	J.S. Serial Number and filing date	e, when known;			
was filed on	and was given U	J.S. Serial No.			
	; or				
is filed concur	rently herewith;				

Name of Corporation

AND WHEREAS SUMITOMO OSAKA CEMENT CO., LTD. (herein called "ASSIGNEE"), a corporation organized under the laws of Japan, and having an office and place of business at 6-28, Rokuban-cho, Chiyoda-ku, Tokyo 102-8465 Japan

State or Country of Incorporation and Address

wishes to acquire the entire right, title and interest in and to said invention and patent application and any Letters Patent to be obtained therefor;

NOW, THEREFORE, for and in consideration of the sum of One Dollar and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, THE UNDERSIGNED hereby sell, assign and transfer to the ASSIGNEE, its successors and assigns, the entire right, title and interest for the United States in and to the invention disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and THE UNDERSIGNED hereby authorize and request the Commissioner of Patents to issue any and all United States Letters-Patent for the aforesaid invention to the ASSIGNEE of the entire right, title and interest in and to the same, for the use of the ASSIGNEE, its successors and assigns.

THE UNDERSIGNED hereby agree that THE UNDERSIGNED, their Page 1 of 2

> **PATENT** REEL: 027942 FRAME: 0210

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executors and legal representatives will make, execute and deliver (without charge but at the expense of the ASSIGNEE) any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said ASSIGNEE, its successors and representatives all facts known to THE UNDERSIGNED relating to said invention and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable to vest the ASSIGNEE, its successors or assigns the entire right, title and interest in and to the said invention, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

THE UNDERSIGNED represent and agree with said ASSIGNEE its successors and assigns, that no assignment grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by THE UNDERSIGNED, and that full right to convey the same as herein expressed is possessed by THE UNDERSIGNED.

IN TESTIMONY WHEREOF, THE UNDERSIGNED have hereunto set their hand on the dates indicated below.

Each inventor must sign & date

Miki OKAMURA

March 15

Date

Ryo Shimim

Signature: Miki OKAMURA

Signature: Ryo SHIMIZU

Date

Yasuhiro ISHIMANA

Signature: Yasuhiro ISHIKAWA

March 15, 2012

Date

Note: No legalization or

other witness required