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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4347534

NATURE OF CONVEYANCE: ASSIGNMENT CONVEYING PARTY DATA Executio TEPPEI YANAGAWA 03/28/2017 KATSUTOSHI KONDOU 03/28/2017 TETSUYA FUJINO 03/30/2017 JUNICHIRO ICHIKAWA 03/28/2017 RECEIVING PARTY DATA Name: SUMITOMO OSAKA CEMENT CO., LTD.	7		
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JUNICHIRO ICHIKAWA 03/28/2013			
RECEIVING PARTY DATA	7		
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Name: SUMITOMO OSAKA CEMENT COLLTD			
Street Address: 6-28, ROKUBANCHO, CHIYODA-KU			
City: TOKYO			
State/Country: JAPAN			
Postal Code: 102-8465	102-8465		
Application Number:15516196			
Property Type Number			
CORRESPONDENCE DATA Fax Number: (810)385-9688			
Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be s	sent		
using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.			
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Email: julie.maryon@profilepatents.com Correspondent Name: ITIP PROFICIENCY, LLC			
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ATTORNEY DOCKET NUMBER: G1545US			
NAME OF SUBMITTER: THOMAS F. QUINN, JR.			
SIGNATURE: /Thomas F. Quinn, Jr. Reg. No. 35988/			
	03/31/2017		
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Attorney Docket No. G1545US

DECLARATION AND ASSIGNMENT

As a below named inventor, I hereby declare that: I believe I am the original inventor or an original joint inventor of a claimed invention in the application, which is entitled:

WAVEGUIDE TYPE OPTICAL ELEMENT

the specification of which is attached hereto along with any applicable amendments. I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. The above-identified application was made or authorized to be made by me. I acknowledge the duty to disclose information which is material to patentability of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent or inventor's certificate(s) listed below, or 365(a) of any PCT international application, listed below and have also identified below any foreign application for patent, inventor's certificate(s) or any PCT international application having a filing date before that of the application on which priority is claimed: PRIOR FOREIGN APPLICATION(S):

Application Number	Application Date	Application Country
2015-071159	03/31/2015	JP
PCT/JP2016/059334	03/24/2016	wo

WHEREAS, I, the undersigned, residing at the indicated address given next to my name below, have made an invention entitled - WAVEGUIDE TYPE OPTICAL ELEMENT -, which is described in the above-identified PRIOR FOREIGN APPLICATION(S) listed by priority Patent Application number(s), date(s) and priority country.

WHEREAS, Sumitomo Osaka Cement Co., Ltd. 6-28, Rokubancho, Chiyoda-ku Tokyo, 102-8465 JAPAN desires to acquire the entire right, title and interest in and to said invention and in, to and under any Patent Applications which may be filed and any Letters Patent granted covering the invention in the United States and in any and all other countries.

NOW, THEREFORE, in view of my employment with Sumitomo Osaka Cement Co., Ltd. 6-28, Rokubancho, Chiyoda-ku Tokyo, 102-8465 JAPAN and other valuable consideration which is hereby acknowledged, I, the undersigned, hereby sell, assign, and transfer to Sumitomo Osaka Cement Co., Ltd. 6-28, Rokubancho, Chiyoda-ku Tokyo, 102-8465 JAPAN its successors and assigns, the entire right, title and interest to the invention in the United States and in all other countries and the entire right, title, and interest in and to any and all patent applications covering the above invention, including the above identified application(s) and any and all corresponding and related applications in the United States and all countries, and the entire right, title, and

interest in and to any and all Letters Patent which may be granted covering the invention in the United States and in any and all other countries and in and to any and all divisions, reissues, continuations, and extensions thereof, to the extent that I am an inventor of such invention and I covenant that I have the full right to do so.

I hereby authorize and request the Patent Office Officials in the United States and in any and all other countries to issue any and all of said Letters Patent, when granted, to Sumitomo Osaka Cement Co., Ltd. 6-28, Rokubancho, Chiyoda-ku Tokyo, 102-8465 JAPAN, as the assignee of the entire right, title and interest in and to the same, for the sole use of Sumitomo Osaka Cement Co., Ltd. 6-28, Rokubancho, Chiyoda-ku Tokyo, 102-8465 JAPAN, its successors and assigns. I further agree that I will communicate to Sumitomo Osaka Cement Co., Ltd. 6-28, Rokubancho, Chiyoda-ku Tokyo, 102-8465 JAPAN, its successors and assigns. I further agree that I will communicate to Sumitomo Osaka Cement Co., Ltd. 6-28, Rokubancho, Chiyoda-ku Tokyo, 102-8465 JAPAN or its representatives or agents all facts and information known or available to me regarding said invention whenever requested; I will testify in any interference or other legal proceeding; I will execute and deliver, on request, all lawful papers including original, divisional, continuing and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, depositions, etc. and generally do everything possible to aid said Sumitomo Osaka Cement Co., Ltd. 6-28, Rokubancho, Chiyoda-ku Tokyo, 102-8465 JAPAN, its successors and assigns, at its expense, in obtaining and enforcing proper protection for said invention in the United States and all other countries.

This Assignment shall be effective the earlier of: the date of my signature as indicated next to my name below, or the date of the last priority filing listed above.

IN TESTIMONY WHEREOF, I hereby execute this assignment:

Inventor Name:

Teppei Yanagawa

Signature:

eppei Yanagawa

Date:

Mailing Address: 6-28, Rokubancho, Chiyoda-ku, Tokyo, 102-8465, JAPAN

Citizen of: Japan

Attorney Docket No.

G1545US

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the above invention, including the above identified application(s) and any and all corresponding and related applications in the United States and all countries, and the entire right, title, and interest in and to any and all Letters Patent which may be granted covering the invention in the United States and in any and all other countries and in and to any and all divisions, reissues, continuations, and extensions thereof, to the extent that I am an inventor of such invention and I covenant that I have the full right to do so.

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IN TESTIMONY WHEREOF, I hereby execute this assignment:

Inventor Name:

Katsutoshi Kondou

Signature:

Latarbosh: Kondou. 28. March. 2017

Date:

Mailing Address: 6-28.Rokubancho.Chivoda-ku.Tokvo.102-8465.JAPAN

Citizen of: Japan Attorney Docket No.

G1545US

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interest in and to any and all Letters Patent which may be granted covering the invention in the United States and in any and all other countries and in and to any and all divisions, reissues, continuations, and extensions thereof, to the extent that I am an inventor of such invention and I covenant that I have the full right to do so.

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IN TESTIMONY WHEREOF, I hereby execute this assignment:

Inventor Name: Tetsuya Fujino

Signature:

 Tetomya	Fuino	
 0	- /	

Date:

Mailing Address: 6-28, Rokubancho, Chiyoda-ku, Tokyo, 102-8465, JAPAN

Mar. 30 / 2017

Citizen of: Japan

Attorney Docket No.

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interest in and to any and all Letters Patent which may be granted covering the invention in the United States and in any and all other countries and in and to any and all divisions, reissues, continuations, and extensions thereof, to the extent that I am an inventor of such invention and I covenant that I have the full right to do so.

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IN TESTIMONY WHEREOF, I hereby execute this assignment:

Inventor Name:

Junichiro Ichikawa

Signature:

Junha Lohnfower 28 Merch 2017

Date:

Mailing Address: 6-28, Rokubancho, Chiyoda-ku, Tokyo, 102-8465, JAPAN

Citizen of: Japan

RECORDED: 03/31/2017