PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Naomi KUMANO	12/20/2012
Iwao SHIMOTAKAHARA	12/20/2012
Ryuichi SUGIZAKI	12/20/2012
Takeshi YAGI	12/27/2012
Tomoya SHIMIZU	01/11/2013
Takashi MATSUI	01/11/2013
Yukihiro GOTO	01/11/2013
Toshio KURASHIMA	01/11/2013
Kazuhide NAKAJIMA	01/11/2013

RECEIVING PARTY DATA

Name:	FURUKAWA ELECTRIC CO., LTD.
Street Address:	2-3, Marunouchi 2-chome, Chiyoda-ku
City:	Tokyo
State/Country:	JAPAN
Postal Code:	100-8322

Name:	NIPPON TELEGRAPH AND TELEPHONE CORPORATION	
Street Address:	3-1, Otemachi 2-chome, Chiyoda-ku	
City:	Tokyo	
State/Country:	JAPAN	
Postal Code:	100-8116	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13754963

CORRESPONDENCE DATA

REEL: 029728 FRAME: 0143

PATENT

Fax Number: 7034132220

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 7034133000

Email: SJONES@oblon.com
Correspondent Name: Oblon Spivak LLP
Address Line 1: 1940 DUKE STREET

Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	409547US8X CONT	
NAME OF SUBMITTER:	Shanele Jones	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 18

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Title of HOLE-ASSISTED OPTICAL FIBER Invention		
As the below named inventor, I hereby declare that:		
This declaration The attached application, or		
is directed to: United States application or PCT international application number		
The above-identified application was made or authorized to be made by me.		
I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.		
WHEREAS, FURUKAWA ELECTRIC CO., LTD. and NIPPON TELEGRAPH AND TELEPHONE CORPORATION		
(hereinafter referred to as "ASSIGNEES") having places of business at: 2-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 100-8322 Japan and 3-1, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8116 Japan, respectively are desirous of jointly acquiring interests in 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, by these presents do sell, assign and transfer unto said ASSIGNEES, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention and other relevant International Treaties and Arrangements from the aforesaid application) 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 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 ASSIGNEES as the assignees of my entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEES, their 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 had this Assignment and sale not been made.		
Further, I agree that I will communicate to said ASSIGNEES or their representatives any facts known to me 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 Letters Patent to be issued to said ASSIGNEES, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEES, their 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.		
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.		
LEGAL NAME OF INVENTOR		
Inventor: Naomi KUMANO Date: Dec. 20, 2012		
Signature: Naomi Kumino		

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW



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LEGAL NAME OF INVENTOR			
Inventor: Iwao SHIMOTAKAHARA Date: 26/2 / 12/20			
Signature: Imao Shinotabahara			

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LEGAL NAME OF			
Inventor: Ryuichi			
Signature:	suichi Sugizaki		

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PTEA. 12020-US

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR MULTIPLE ASSIGNEES

Title of Invention	HOLE-ASSISTED OPTICAL FIBER		
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Tokyo 100-8322 Ja desirous of jointly a Letters Patent that foreign countries;	d to as "ASSIGNEES") having places of business at: 2-3, Marunouchi 2-chome, Chiyoda-ku, apan and 3-1, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8116 Japan, respectively are acquiring interests in the entire right, title and interest in and to said invention and in and to any may be granted therefore in the United States and its territorial possessions and in any and all		
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LEGAL NAME OF			
Inventor: Takeshi	YAGI Date: 27. Dec, 2012		
Signature:	Takeshi Yagi		

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P. ATTORNEYS AT LAW

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LEGAL NAME OF	FINVENTOR	
Inventor: Tomoya	a SHIMIZU	Date:Jan.11,2013
Signature: Tomo	nya Shimiza	

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LEGAL NAME OF	INVENTOR	
Inventor: Takashi	MATSUI	Date:Jan.11,2013
Signature:	kashi Matrici	

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ATTORNEYS AT LAW

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LEGAL NAME OF	INVENTOR	
Inventor: Yukihir	o GOTO	Date: Jan.11,2013
Signature: Suki	hiro Loter	

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LEGAL NAME OF	INVENTOR	
Inventor: Toshio I	KURASHIMA Date: Jan.11,2013	
Signature:	his Caradina	

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PFEA-12020-US 3

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR MULTIPLE ASSIGNEES

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Inventor: Kazuhid	e NAKAJIMA Date: Jan.11,2013	
Signature: <u>Kaz</u>	white Nokajima	

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PATENT REEL: 029728 FRAME: 0162

RECORDED: 01/31/2013