

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT																				
NATURE OF CONVEYANCE:	ASSIGNMENT																				
CONVEYING PARTY DATA																					
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CORRESPONDENCE DATA																					

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Fax Number: 7034132220
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Correspondent Name: Oblon Spivak LLP
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Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	409547US8X CONT
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NAME OF SUBMITTER:	Shanele Jones
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	This document serves as an Oath/Declaration (37 CFR 1.63).
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Total Attachments: 18

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LEGAL NAME OF INVENTOR	
Inventor: <u>Naomi KUMANO</u>	Date: <u>Dec. 20, 2012</u>
Signature: <u>Naomi Kumano</u>	

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, L.L.P.
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LEGAL NAME OF INVENTOR	
Inventor: <u>Iwao SHIMOTAKAHARA</u>	Date: <u>2012/12/20</u>
Signature: <u>Iwao Shimotakahara</u>	

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LEGAL NAME OF INVENTOR	
Inventor: <u>Ryuichi SUGIZAKI</u>	Date: <u>Dec. 20, 2012</u>
Signature: <u>Ryuichi Sugizaki</u>	

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LEGAL NAME OF INVENTOR	
Inventor: <u>Takeshi YAGI</u>	Date: <u>27. Dec, 2012</u>
Signature: <u><i>Takeshi Yagi</i></u>	

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LEGAL NAME OF INVENTOR	
Inventor: <u>Tomoya SHIMIZU</u>	Date: <u>Jan. 11, 2013</u>
Signature: <u>Tomoya Shimizu</u>	

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Inventor: <u>Takashi MATSUI</u>	Date: <u>Jan. 11, 2013</u>
Signature: <u>Takashi Matsui</u>	

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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: <u>Yukihiro GOTO</u>	Date: <u>Jan. 11, 2013</u>
Signature: <u>Yukihiro Goto</u>	

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ALEXANDRIA, VIRGINIA 22314

**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
<p>As the below named inventor, I hereby declare that:</p> <p>This declaration <input checked="" type="checkbox"/> The attached application, or</p> <p>is directed to: <input type="checkbox"/> United States application or PCT international application number _____ filed on _____</p> <p>The above-identified application was made or authorized to be made by me.</p> <p>I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.</p> <p>WHEREAS, <u>FURUKAWA ELECTRIC CO., LTD. and</u> <u>NIPPON TELEGRAPH AND TELEPHONE CORPORATION</u></p> <p>(hereinafter referred to as "ASSIGNEES") having places of business at: <u>2-3, Marunouchi 2-chome, Chiyoda-ku,</u> <u>Tokyo 100-8322 Japan</u> and <u>3-1, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8116 Japan</u>, 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;</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>LEGAL NAME OF INVENTOR</p> <p>Inventor: <u>Toshio KURASHIMA</u> Date: <u>Jan. 11, 2013</u></p> <p>Signature: <u>Toshio Kurashima</u></p>	

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Title of Invention	HOLE-ASSISTED OPTICAL FIBER
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This declaration <input checked="" type="checkbox"/> The attached application, or	
is directed to: <input type="checkbox"/> United States application or PCT international application number _____ filed on _____	
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, <u>FURUKAWA ELECTRIC CO., LTD. and</u> <u>NIPPON TELEGRAPH AND TELEPHONE CORPORATION</u>	
(hereinafter referred to as "ASSIGNEES") having places of business at: <u>2-3, Marunouchi 2-chome, Chiyoda-ku,</u> <u>Tokyo 100-8322 Japan</u> and <u>3-1, Otemachi 2-chome, Chiyoda-ku, Tokyo 100-8116 Japan</u> , respectively are	
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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:	<u>Kazuhide NAKAJIMA</u>
Date:	<u>Jan. 11, 2013</u>
Signature:	<u>Kazuhide Nakajima</u>

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