

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
TAKASHI MATSUI	07/27/2017
KYOZO TSUJIKAWA	08/15/2017
FUMIHIKO YAMAMOTO	08/22/2017
NOBUTOMO HANZAWA	08/10/2017
RECEIVING PARTY DATA	
Name:	NIPPON TELEGRAPH AND TELEPHONE CORPORATION
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City:	TOKYO
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Postal Code:	100-8116
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15563988
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NAME OF SUBMITTER:	PAUL D. GREELEY
SIGNATURE:	/PAUL D. GREELEY/
DATE SIGNED:	10/03/2017
Total Attachments: 2	
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JOINT ASSIGNMENT

The ASSIGNORS, **MATSUI, Takashi**
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have invented certain new and useful improvements in

PHOTONIC CRYSTAL FIBER

an invention which is fully described in an application for Letters Patent of the United States executed by them this day; and

The ASSIGNEE, **NIPPON TELEGRAPH AND TELEPHONE CORPORATION**, a Japanese corporation having its principal office at **5-1, Otemachi 1-chome, Chiyoda-ku, Tokyo 100-8116 Japan**, wishes to acquire the entire right, title and interest in and to the invention and under Letters Patent which may be obtained for this invention.

For valuable and legally sufficient considerations, receipt of which are hereby acknowledged, the Assignors sell, assign and transfer to Assignee, its successors and assigns, the entire right, title and interest for the United States in and to the above-identified invention and application, divisionals, continuations, and continuation-in-part and for the full term of any Letters Patent of the United States that may issue for the invention.

The Assignors also sell, assign and transfer to Assignee the entire right, title and interest in and to the invention and application for Letters Patent and Letters Patent therefor in all countries foreign to the United States,

including all rights under the International Convention. The Assignors further authorize Assignee to apply for Letters Patent in foreign countries in the name of Assignee, and to claim the priority of the filing date of the United States Application under the provisions of the International Convention.

The Assignors further agree, for themselves and their legal representatives, they will assist Assignee in the prosecution before the United States Patent Office and the Federal Courts of this application, and other applications for Letters Patent including renewals, continuations, divisions, reissues and substitutions, that the Assignee elects to make covering the invention. The Assignors vest in Assignee like exclusive title in and to all such other applications and Letters Patent. The Assignors will execute and deliver to Assignee any documents which may be requested by Assignee to carry out the terms of this Assignment.

The Commissioner of Patents of the United States is authorized and requested to issue Letters Patent of the United States to Assignee. The Assignors also authorize and request the equivalent authorities in foreign countries to issue the patents of foreign countries to Assignee.

MATSUI, Takashi

Inventor's Name

Takashi Matsui

Signature

27th July 2017

Date

Yoshinori Toyoda

Witness

TSUJIKAWA, Kyozo

Inventor's Name

Kyozo Tsujikawa

Signature

15th. Aug. 2017

Date

Yoshinori Toyoda

Witness

YAMAMOTO, Fumihiko

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Witness

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August 10, 2017

Date

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