

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>NAOYA WADA</td> <td>02/26/2014</td> </tr> <tr> <td>TETSUYA KOBAYASHI</td> <td>03/03/2014</td> </tr> <tr> <td>YUSAKU TOTTORI</td> <td>02/27/2014</td> </tr> </tbody> </table>		Name	Execution Date	NAOYA WADA	02/26/2014	TETSUYA KOBAYASHI	03/03/2014	YUSAKU TOTTORI	02/27/2014		
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<table border="1"> <tr> <td>Name:</td> <td>NATIONAL INSTITUTE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY</td> </tr> <tr> <td>Street Address:</td> <td>4-2-1 NUKUI-KITAMACHI, KOGANEI-SHI,</td> </tr> <tr> <td>City:</td> <td>TOKYO</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>1848795</td> </tr> </table>		Name:	NATIONAL INSTITUTE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY	Street Address:	4-2-1 NUKUI-KITAMACHI, KOGANEI-SHI,	City:	TOKYO	State/Country:	JAPAN	Postal Code:	1848795
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<table border="1"> <tr> <td>Name:</td> <td>OPTOQUEST CO., LTD.</td> </tr> <tr> <td>Street Address:</td> <td>1335 HARAICHI, AGE0-CITY,</td> </tr> <tr> <td>City:</td> <td>SAITAMA</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>3620021</td> </tr> </table>		Name:	OPTOQUEST CO., LTD.	Street Address:	1335 HARAICHI, AGE0-CITY,	City:	SAITAMA	State/Country:	JAPAN	Postal Code:	3620021
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PATENT

ATTORNEY DOCKET NUMBER:	P45368
NAME OF SUBMITTER:	DANIEL B. MOON
Signature:	/Daniel B. Moon/
Date:	03/06/2014
<p>Total Attachments: 4 source=P45368_assign#page1.tif source=P45368_assign#page2.tif source=P45368_assign#page3.tif source=P45368_assign#page4.tif</p>	

**ASSIGNMENT**

WHEREAS, **Naoya WADA**, a resident of Tokyo, JAPAN, whose mailing address is c/o National Institute of Information and Communications Technology, 4-2-1 Nukui-Kitamachi, Koganei-shi, Tokyo, 1848795 JAPAN, **Tetsuya KOBAYASHI**, a resident of Ageo-city, JAPAN, whose mailing address is c/o Optoquest Co., Ltd., 1335 Haraichi, Ageo-city, Saitama, 3620021 JAPAN, and **Yusaku TOTTORI**, a resident of Ageo-city, JAPAN, whose mailing address is c/o Optoquest Co., Ltd., 1335 Haraichi, Ageo-city, Saitama, 3620021 JAPAN, hereinafter referred to as the ASSIGNORS, have invented a certain improvement relating to

**OPTICAL FIBER-TYPE OPTICAL FUNCTIONAL ELEMENT CARTRIDGE  
MODULE**

for which they have executed, on the same date as this assignment, an application for Letters Patent for the United States to be filed in the United States Patent and Trademark Office, which Application is a National Stage of International Application No. PCT/JP2012/068299, filed July 19, 2012.

If this Assignment is filed after the filing date of the above-identified application, the undersigned hereby authorize and request any one of the practitioners of record in this application associated with Customer No. 07055 including Neil F. Greenblum, Reg. No. 28,394, Bruce H. Bernstein, Reg. No. 29,027, Arnold Turk, Reg. No. 33,094, James L. Rowland, Reg. No. 32,674, Stephen M. Roylance, Reg. No. 31,296, Leslie J. Paperner, Reg. No. 33,329, William Pieprz, Reg. No. 33,630, Robert W. Mueller, Reg. No. 35,043, William E. Lyddane, Reg. No. 41,568 and William S. Boshnick, Reg. No. 44,550, of the firm Greenblum & Bernstein, P.L.C., whose address is 1950 Roland Clarke Place, Reston, Virginia 20191, to insert here in parenthesis (Application No. \_\_\_\_\_, filed \_\_\_\_\_) the filing date and application number of said application when known.

AND WHEREAS, **NATIONAL INSTITUTE OF INFORMATION AND COMMUNICATIONS TECHNOLOGY**, a corporation organized and existing under the laws of JAPAN, whose mailing address is 4-2-1 Nukui-Kitamachi, Koganei-shi, Tokyo, 1848795 JAPAN, and **OPTOQUEST CO., LTD.**, a corporation organized and existing under the laws of JAPAN, whose mailing address is 1335 Haraichi, Ageo-city, Saitama, 3620021 JAPAN, hereinafter known as the ASSIGNEES, are each desirous of acquiring an equal undivided interest in the entire right, title and interest for the United States in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, reexaminations, and prolongations thereof.

NOW, THIS WITNESSETH that for good and valuable consideration, the receipt whereof is hereby acknowledged, said ASSIGNORS hereby assign, sell and transfer to said ASSIGNEES, their assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application, for the United States including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor and all rights to sue for past and future infringement thereunder, said ASSIGNEES and their assigns and legal representatives to

have, hold, exercise and enjoy the said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, reexaminations, and prolongations thereof, with all the rights, powers, privileges, and advantages in any ways arising from or pertaining thereto, for and during the term or terms of any and all such Letters Patent when granted, including any and all renewals, reissues, reexaminations, and prolongations thereof, for the use and benefit of said ASSIGNEES and their assigns and legal representatives in as ample and beneficial a manner to all intents and purposes as the said ASSIGNORS might or could have held and enjoyed the same, if this assignment had not been made.

AND said ASSIGNORS hereby agree to execute all papers necessary to file applications in the United States for said invention and to assign the same to said ASSIGNEES, or any assignee acquiring title to said invention, and to execute any other papers that may be needed in connection with filing said application and securing Letters Patent thereon.

AND said ASSIGNORS authorize and request the Commissioner of Patents to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said ASSIGNEES, their assigns and legal representatives, in accordance herewith.

IN TESTIMONY WHEREOF, this assignment is executed by said ASSIGNOR(S), on the respective date(s) indicated below.

First Witness:

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Date)

  
Naoya WADA

26 Feb. 2014  
Date

Second Witness:

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Date)

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First Witness:

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Date)

*Tetsuya Kobayashi*

\_\_\_\_\_  
**Tetsuya KOBAYASHI**

*3. March, 2014*  
\_\_\_\_\_  
Date

Second Witness:

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Date)

First Witness:

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Date)

*Yusaku Tottori*

**Yusaku TOTTORI**

*27. February 2014*  
Date

Second Witness:

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Date)

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