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To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

- 1) Juhyun YU 5) Hiroki KATAYAMA
2) Kinya YAMAZAKI
3) Hidetaka KAWAUCHI
4) Tenpei INOUE

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: May 12, 2005

2. Name and address of receiving party(ies):

Name: Hitachi Cable, Ltd.

Address: 6-1, Otemachi 1-chome,
Chiyoda-ku,

City: Tokyo State/Prov.: _____Country: Japan ZIP: _____

Additional name(s) & address(es)

☐ Yes ☐ No

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is: _____

Patent Application No.

Filing date

11/131,342May 18, 2005

B. Patent No.(s)

Additional numbers

☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Sean M. McGinn, Esq.Registration No. 34,386Address: McGinn & Gibb, PLLC8321 Old Courthouse RoadSuite 200City: Vienna State/Prov.: VACountry: USA ZIP: 22182-3817

6. Total number of applications and patents involved:

17. Total fee (37 CFR 3.41):.....\$ 40.00☐ Enclosed - Any excess or insufficiency should be credited or debited to deposit account☒ Authorized to be charged to deposit account

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9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Sean M. McGinn, Esq.

Name of Person Signing

Signature

August 11, 2005

Date

Total number of pages including cover sheet, attachments, and document: 1

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PATENT
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PHCF-05015

ASSIGNMENT OF APPLICATION FOR PATENT**WHEREAS**NAME AND ADDRESS
OF ASSIGNORSJuhyun YU
c/o Hitachi Cable, Ltd., 6-1, Otemachi 1-chome, Chiyoda-ku,
Tokyo, JapanKinya YAMAZAKI
c/o Hitachi Cable, Ltd., 6-1, Otemachi 1-chome, Chiyoda-ku,
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c/o Hitachi Cable, Ltd., 6-1, Otemachi 1-chome, Chiyoda-ku,
Tokyo, JapanTenpei INOUE
c/o Hitachi Cable, Ltd., 6-1, Otemachi 1-chome, Chiyoda-ku,
Tokyo, JapanHiroki KATAYAMA
c/o Hitachi Cable, Ltd., 6-1, Otemachi 1-chome, Chiyoda-ku,
Tokyo, Japan(HEREINAFTER REFERRED TO AS ASSIGNOR), have invented and
own a certain new and useful invention entitled:

TITLE OF INVENTION:

OPTICAL TRANSMISSION MODULE

WHEREASFULL NAME AND ADDRESS
OF ASSIGNEEHitachi Cable, Ltd.
6-1, Otemachi 1-chome, Chiyoda-ku, Tokyo, Japan(hereinafter referred to as ASSIGNEE), is desirous of acquiring the
entire right, title, and interest in, to and under said invention and the
United States Letters Patent to be obtained therefor:

NOW THEREFORE, TO ALL WHOM IT MAY CONCERN: Be
it known that in consideration of the payment of ASSIGNEE to
ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is
hereby acknowledged, and for other good and valuable consideration,
ASSIGNOR, by these presents, hereby sells, assigns and transfers to
ASSIGNEE the entire and exclusive right, title and interest to said
invention and all Letters Patent of the United States to be obtained
therefor on said application or any continuation, division, renewal,
substitute or reissue thereof for the full term or terms for which the same
may be granted.

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ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States Patent obtained therefor on said application or any continuation, division, renewal, substitute or reissue thereof for the full term or terms to

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said ASSIGNEE, of the entire right, title, and interest in and to the same, for his sole use and behoof, and for the use and behoof of his legal representatives, to the full end of the term or terms for which said Letters Patent obtained therefor on said application or any continuation, division, renewal, substitute or reissue thereof for may be granted, as full and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said application, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

DATE OF SIGNING

IN WITNESS WHEREOF, I/We have hereunto set

hand and seal this 12th day of May, 2005.

SIGNATURE

By: Juhyun Yu
Juhyun YU

SIGNATURE

By: Kinya Yamazaki
Kinya YAMAZAKI

SIGNATURE

By: Hidetaka Kawauchi
Hidetaka KAWAUCHI

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SIGNATURE

By: Tenpei Inoue
Tenpei INOUE

SIGNATURE

By: Hiroki Katayama
Hiroki KATAYAMA

WITNESSES

M. Kato
Masaaki Kato

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