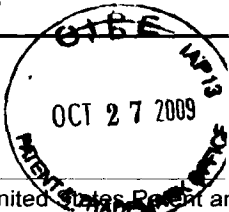


10: 27-09

Docket No.: PHCF-09071US

FORM PTO-1595 (Modified)
(Rev. 03-09)
OMB No. 0651-0027 (exp. 3/31/2009)
P08A/REV06



10-30-2009



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2) Toshifumi HASAMA 6) Hisato UETSUKA
3) Hitoshi KAWASHIMA 7) Hiroyuki TSUDA
4) Kenji KINTAKA 8) Keisuke SORIMOTO

Additional names(s) of conveying party(ies) ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s): September 11, 2009

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other

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

National Institute of Advanced Industrial Science and Technology
Name:

Address: 3-1, Kasumigaseki 1-chome, Chiyoda-ku

City: Tokyo

State/Prov.:

Country: JAPAN ZIP: 100-8921

Additional name(s) & address(es) attached? ☒ Yes ☐ No

4. Application or patent numbers(s):

A. Patent Application No. (s)

12/585,516

☐ This document is being filed together with a new application.

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Sean M. McGinn, Esq.

Registration No.: 34,386

Address: McGinn Intellectual Property Law Group, PLLC

8321 Old Courthouse Road

Suite 200

City: Vienna

State/Prov.: Virginia

Country: USA ZIP: 22182-3817

Phone Number: (703) 761-4100

Fax Number: (703) 761-2375 or 76

Email Address:

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

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9. Signature:

Signature

October 27, 2009

Date

Sean M. McGinn, Esq.

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PATENT
REEL: 023445 FRAME: 0911

Hiroshi ISHIKAWA, et al.

Serial No.: 12/585,516

Docket No.: PHCF-09071US

HIR.393

RECORDATION FORM COVER SHEET

2. Name and Address of Receiving Party(ies): Continued

Name: Hitachi Cable, Ltd.
Address: 14-1, Sotokanda 4-chome, Chiyoda-ku
City: Tokyo
State/Prov
Country: JAPAN

3. Name and Address of Receiving Party(ies): Continued

Name: KEIO UNIVERSITY
Address: 15-45, Mita 2-chome, Minato-ku
City: Tokyo
State/Prov
Country: JAPAN
Zip Code 108-8345

ASSIGNMENT OF APPLICATION FOR PATENT**WHEREAS**NAME AND ADDRESS
OF ASSIGNOR

Hiroshi ISHIKAWA
c/o National Institute of Advanced Industrial Science and Technology,
Tsukuba Central 2, 1-1, Umezono 1-Chome, Tsukuba-shi, Ibaraki
305-8568 Japan

Toshifumi HASAMA
c/o National Institute of Advanced Industrial Science and Technology,
Tsukuba Central 2, 1-1, Umezono 1-Chome, Tsukuba-shi, Ibaraki
305-8568 Japan

Hitoshi KAWASHIMA
c/o National Institute of Advanced Industrial Science and Technology,
Tsukuba Central 2, 1-1, Umezono 1-Chome, Tsukuba-shi, Ibaraki
305-8568 Japan

Kenji KINTAKA
c/o National Institute of Advanced Industrial Science and Technology,
Tsukuba Central 2, 1-1, Umezono 1-Chome, Tsukuba-shi, Ibaraki
305-8568 Japan

Masahiko MORI
c/o National Institute of Advanced Industrial Science and Technology,
Tsukuba Central 2, 1-1, Umezono 1-Chome, Tsukuba-shi, Ibaraki
305-8568 Japan

Hisato UETSUKA
c/o Hitachi Cable, Ltd., 14-1, Sotokanda 4-chome, Chiyoda-ku,
Tokyo, Japan

Hiroyuki TSUDA
c/o Faculty of Science and Technology, Keio University,
14-1, Hiyoshi 3-chome, kohoku-ku, Yokohama-shi, Kanagawa
223-8522 Japan

Keisuke SORIMOTO
c/o Faculty of Science and Technology, Keio University,
14-1, Hiyoshi 3-chome, kohoku-ku, Yokohama-shi, Kanagawa
223-8522 Japan

(HEREINAFTER REFERRED TO AS ASSIGNOR), have
invented and own a certain new and useful invention
entitled:

TITLE OF INVENTION:

OPTICAL WAVEGUIDE-TYPE WAVELENGTH DOMAIN
SWITCH

WHEREASFULL NAME AND ADDRESS
OF ASSIGNEE

National Institute of Advanced Industrial Science and Technology
3-1, Kasumigaseki 1-chome, Chiyoda-ku, Tokyo 100-8921, Japan

Hitachi Cable, Ltd.
14-1, Sotokanda 4-chome, Chiyoda-ku, Tokyo, Japan

KEIO UNIVERSITY
15-45, Mita 2-chome, Minato-ku, Tokyo 108-8345 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.

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 **(Assignment of Application for Patent -- page 2 of 3**

continuation, division, renewal, substitute or reissue thereof for the full term or terms to 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 11th day of September, 2009.

SIGNATURE

By: Hiroshi Ishikawa
Hiroshi ISHIKAWA

SIGNATURE

By: Toshifumi Hasama
Toshifumi HASAMA

SIGNATURE

By: Hitoshi Kawashima
Hitoshi KAWASHIMA

SIGNATURE

By: Kenji Kintaka
Kenji KINTAKA

SIGNATURE

By: Masahiko Mori
Masahiko MORI

SIGNATURE

By: Hisato Uetsuka
Hisato UETSUKA

SIGNATURE

By: Hiroyuki Tsuda
Hiroyuki TSUDA

SIGNATURE

By: Keisuke Sorimoto
Keisuke SORIMOTO

WITNESS 1

Masanori Katsura
~~Masahiro TAGUCHI~~
Masanori KATSURA

WITNESS 2

M. Kato
Masaaki Kato

WITNESS 3

Satoshi Doi
Satoshi Doi

M.K Sep. 11. 2009

(Assignment of Application for Patent -- page 3 of 3)

PATENT

RECORDED: 10/27/2009

REEL: 023445 FRAME: 0915