

08-01-2001



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To the Honorable Commissioner of Patents

101795205

and original documents or copy thereof.

1. Name of conveying party(ies):

Susumu NODA
Alongkarn CHUTINAN
Daisuke MIYAUCHI
Yoshikazu NARUMIYA

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

Name: 1)TDK CORPORATION and 2)KANSAI
TECHNOLOGY LICENSING
ORGANIZATION CO., LTD.Address: 1) 1-13-1, Nihonbashi, Chuo-ku, Tokyo,
103-8272, JAPAN; 2) 1, Chudoji Awata-
cho, Shimogyo-ku, Kyoto-shi, Kyoto, 600-
8815, JAPANAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of Conveyance:

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

Execution Date: July 2, 2001; June 20, 2001;
July 2, 2001; July 2, 2001Additional name(s) and address(es) attached? ☐ Yes ☒ No

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

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

A. Patent Application No.(s)
09/814,728

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

22850

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

6. Total applications and patents involved: 1

7. Total fee (37 CFR 3.41): \$40.00

- ☒ Enclosed
☐ Authorized to be charged to deposit account

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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.

Marvin J. Spivak

Name of Person Signing

Signature

July 26, 2001

Date

Registration Number:

Joseph A. Scafetta, Jr.
Registration No. 26,803

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Assignment Of Application

Page 1 of 2

INSERT NAMES
AND RESIDENCE
ADDRESSES OF
THE INVENTORS:

WHEREAS, I (WE) Susumu NODA of 231 Kyoto University

Shyokuinshukushya, Kanyuchi, Gokashyo, Uji-shi, Kyto, Japan

Alongkarn CHUTINAN of 232-403 Daimonji-cho, Takeyamachi-agaru

Kawaramachidori, Nagagyo-ku, Kyoto, Japan

Daisuke MIYAUCHI and Yoshikazu NARUMIYA of c/o TDK CORPORATION

of 1-13-1, Nihonbashi, Chuo-ku, Tokyo, 103-8272, Japan

_____, respectively,

INSERT TITLE
OF INVENTION:

have invented certain new and useful improvements in: WAVEGUIDES AND WAVELENGTH
DEMULTIPLEXERS IN TWO-DIMENSIONAL PHOTONIC CRYSTAL SLABS,

INSERT DATE IN-
VENTORS SIGNED
DECLARATION:

for which an application for Letters Patent was executed on 20/June/2001 and 2/July/2001

(Application No. 09/814,728, filed 23/March/2001), and
TDK CORPORATION and

INSERT NAME
AND ADDRESS OF
COMPANY OR
OTHER ASSIGNEE:

WHEREAS, KANSAI TECHNOLOGY LICENSING ORGANIZATION CO., LTD.

(hereinafter referred to as "ASSIGNEE") having a place of business at: _____
1-13-1, Nihonbashi, Chuo-ku, Tokyo, 103-8272, Japan and
1, Chudoji Awata-cho, Shimogyo-ku, Kyoto-shi, Kyoto, 600-8815, Japan, respectively,

is desirous of acquiring 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;

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 (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries 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.

I (WE) 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 ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) 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 (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) 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 Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) 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.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of Fourth Floor, 1755 Jefferson Davis Highway, Arlington, Virginia 22202 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: 2/July/2001

Susumu Noda
(Signature of Inventor) Susumu NODA

Date: 20/June/2001

Alongkarn Chutinam
(Signature of Inventor) Alongkarn CHUTINAN

Date: 2/July/2001

Daisuke Miyauchi
(Signature of Inventor) Daisuke MIYAUCHI

Date: 2/July/2001

Yoshikazu Narumiya
(Signature of Inventor) Yoshikazu NARUMIYA

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

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