

11-06-2002

Form PTO-1595



COVER SHEET
NLY

102273340

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of Conveying party(ies):

ABE, Shoehei
NAKADA, Hidenori
GOTO, Mototsugu
MAEDA, Ikuo
TAKESHITA, Hideo
ONO, Hiroaki
WADA, Shusuke

Additional name(s) of conveying party(ies) attached? ___ Yes X No

11-1-02

2. Name and address of receiving Party(ies)

FDK CORPORATION
36-11, Shinbashi 5-chome
Minato-ku, Tokyo, 105-0004
Japan

Additional name(s) & address(es) attached? ___ Yes X No

FINANCE SECTION
 2002 NOV -1
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3. Nature of conveyance:

X Assignment ___ Merger
 ___ Security Agreement ___ Change of name
 ___ Other _____

Execution Date: Abe, 7/23/2002; Nakada, 8/01/2002; Goto, 7/23/2002; Maeda, 7/23/2002; Takeshita, 7/31/2002; Ono, 7/23/2002; Wada, 8/01/2002

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):
 10/173,237

B. Patent No.(s)

Additional numbers attached? ___ Yes X No

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

David A. Hall
HELLER EHRMAN WHITE & MCAULIFFE LLP
4350 La Jolla Village Drive
7th Floor
San Diego, CA 92122-1246

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40.00
X Check enclosed
X Authorized to charge any underpayment to deposit account

8. Deposit account Number: 50-1213

11/05/2002 LHWELLER 00000125 10173237
 01 FC:0021 40.00 OP

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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.

David A. Hall David A. Hall 10/29/2002
 Name of Person Signing Signature Date
 Registration No. 32,233

Total number of pages including cover sheet, attachments, and document: 15

A S S I G N M E N T

I, **SHOEHEI ABE**, a citizen of Japan, of 36-11, Shinbashi 5-chome, Minato-ku, Tokyo, 105-0004, Japan, for good and valuable consideration, have assigned and do hereby assign to **FDK CORPORATION**, a joint-stock company of Japan, with its principal place of business at 36-11, Shinbashi 5-chome, Minato-ku, Tokyo, 105-0004, Japan (hereinafter Assignee), its successors, assigns and legal representatives, the entire right, title and interest in and to all subject matter disclosed in the application for Letters Patent of the United States Application No. 10/173,237 (applicant's representative is authorized to insert application number after execution of this document) entitled:

**VARIABLE OPTICAL GAIN EQUALIZER AND VARIABLE BRANCHING RATIO
BEAM SPLITTER**

which was filed on June 13, 2002, and in and to all Convention and Treaty rights of all kinds, in all countries throughout the world, for all such subject matter, including the right to claim for any such foreign applications any priority rights to which such applications are entitled under international conventions, treaties or otherwise and, in and to, all Letters Patent to be obtained for said subject matter by the above application or any continuation, division, continuation-in-

Continuation-in-part, extension, conversion to 35 USC 111(b) or substitute thereof, and any reissue, reexamination or extension of said Letters Patent.

I agree to do all acts and sign all documents necessary to secure, defend and maintain all said Letters Patent and rights, including any continuations, divisionals, reissues, renewals and extensions, and request issuance of all said Letters Patent to the above Assignee in accordance with this assignment.

Date: July 23, 2002

Shohei Abe
SHOHEI ABE

WITNESSED:

DATE: July 30, 2002

Tomoaki Kiriyama
[SIGNATURE OF WITNESS]

TOMOAKI KIRIYAMA
[PRINTED NAME OF WITNESS]

WITNESSED:

DATE: July 30, 2002

Kazuhiko Nakayama
[SIGNATURE OF WITNESS]

KAZUHIKO NAKAYAMA
[PRINTED NAME OF WITNESS]

A S S I G N M E N T

I, **HIDENORI NAKADA**, a citizen of Japan, of 36-11, Shinbashi 5-chome, Minato-ku, Tokyo, 105-0004, Japan, for good and valuable consideration, have assigned and do hereby assign to **FDK CORPORATION**, a joint-stock company of Japan, with its principal place of business at 36-11, Shinbashi 5-chome, Minato-ku, Tokyo, 105-0004, Japan (hereinafter Assignee), its successors, assigns and legal representatives, the entire right, title and interest in and to all subject matter disclosed in the application for Letters Patent of the United States Application No. 10/173,237 (applicant's representative is authorized to insert application number after execution of this document) entitled:

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I agree to do all acts and sign all documents necessary to secure, defend and maintain all said Letters Patent and rights, including any continuations, divisionals, reissues, renewals and extensions, and request issuance of all said Letters Patent to the above Assignee in accordance with this assignment.

Date: August 1, 2002

Hidehori Nakada
HIDENORI NAKADA

WITNESSED:

DATE: August 1, 2002

Tomoaki Kiriyama
[SIGNATURE OF WITNESS]

TOMOAKI KIRIYAMA
[PRINTED NAME OF WITNESS]

WITNESSED:

DATE: August 1, 2002

Kazuhiko Nakayama
[SIGNATURE OF WITNESS]

KAZUHIKO NAKAYAMA
[PRINTED NAME OF WITNESS]

A S S I G N M E N T

I, **MOTOTSUGU GOTO**, a citizen of Japan, of 36-11, Shinbashi 5-chome, Minato-ku, Tokyo, 105-0004, Japan, for good and valuable consideration, have assigned and do hereby assign to **FDK CORPORATION**, a joint-stock company of Japan, with its principal place of business at 36-11, Shinbashi 5-chome, Minato-ku, Tokyo, 105-0004, Japan (hereinafter Assignee), its successors, assigns and legal representatives, the entire right, title and interest in and to all subject matter disclosed in the application for Letters Patent of the United States Application No. 10/173,237 (applicant's representative is authorized to insert application number after execution of this document) entitled:

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I agree to do all acts and sign all documents necessary to secure, defend and maintain all said Letters Patent and rights, including any continuations, divisionals, reissues, renewals and extensions, and request issuance of all said Letters Patent to the above Assignee in accordance with this assignment.

Date: July 23, 2002

Mototsugu Goto
MOTOTSUGU GOTO

WITNESSED:

DATE: July 23, 2002

Kazuhiiko Nakayama
[SIGNATURE OF WITNESS]

KAZUHIKO NAKAYAMA
[PRINTED NAME OF WITNESS]

WITNESSED:

DATE: July 23, 2002

Hiroshi Kurosawa
[SIGNATURE OF WITNESS]

HIROSHI KUROSAWA
[PRINTED NAME OF WITNESS]

A S S I G N M E N T

I, **IKUO MAEDA**, a citizen of Japan, of 36-11, Shinbashi 5-chome, Minato-ku, Tokyo, 105-0004, Japan, for good and valuable consideration, have assigned and do hereby assign to **FDK CORPORATION**, a joint-stock company of Japan, with its principal place of business at 36-11, Shinbashi 5-chome, Minato-ku, Tokyo, 105-0004, Japan (hereinafter Assignee), its successors, assigns and legal representatives, the entire right, title and interest in and to all subject matter disclosed in the application for Letters Patent of the United States Application No. 10/173,237 (applicant's representative is authorized to insert application number after execution of this document) entitled:

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A S S I G N M E N T

I, **HIDEO TAKESHITA**, a citizen of Japan, of 36-11, Shinbashi 5-chome, Minato-ku, Tokyo, 105-0004, Japan, for good and valuable consideration, have assigned and do hereby assign to **FDK CORPORATION**, a joint-stock company of Japan, with its principal place of business at 36-11, Shinbashi 5-chome, Minato-ku, Tokyo, 105-0004, Japan (hereinafter Assignee), its successors, assigns and legal representatives, the entire right, title and interest in and to all subject matter disclosed in the application for Letters Patent of the United States Application No. 10/173,237 (applicant's representative is authorized to insert application number after execution of this document) entitled:

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I agree to do all acts and sign all documents necessary to secure, defend and maintain all said Letters Patent and rights, including any continuations, divisionals, reissues, renewals and extensions, and request issuance of all said Letters Patent to the above Assignee in accordance with this assignment.

Date: July 31, 2002

Hideo Takeshita
HIDEO TAKESHITA

WITNESSED:

DATE: Aug. 1, 2002

Tomoaki Kiriyama
[SIGNATURE OF WITNESS]

TOMOAKI KIRIYAMA
[PRINTED NAME OF WITNESS]

WITNESSED:

DATE: Aug. 1, 2002

Kazuhiko Nakayama
[SIGNATURE OF WITNESS]

KAZUHIKO NAKAYAMA
[PRINTED NAME OF WITNESS]

A S S I G N M E N T

I, **HIROAKI ONO**, a citizen of Japan, of 36-11, Shinbashi 5-chome, Minato-ku, Tokyo, 105-0004, Japan, for good and valuable consideration, have assigned and do hereby assign to **FDK CORPORATION**, a joint-stock company of Japan, with its principal place of business at 36-11, Shinbashi 5-chome, Minato-ku, Tokyo, 105-0004, Japan (hereinafter Assignee), its successors, assigns and legal representatives, the entire right, title and interest in and to all subject matter disclosed in the application for Letters Patent of the United States Application No. 10/173,237 (applicant's representative is authorized to insert application number after execution of this document) entitled:

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ASSIGNMENT
Abe et al.

Atty Docket No. 39320-6158

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I agree to do all acts and sign all documents necessary to secure, defend and maintain all said Letters Patent and rights, including any continuations, divisionals, reissues, renewals and extensions, and request issuance of all said Letters Patent to the above Assignee in accordance with this assignment.

Date: July 23, 2002

Hiroaki Ono
HIROAKI ONO

WITNESSED:

DATE: July 23, 2002

Kazuhiko Nakayama
[SIGNATURE OF WITNESS]

KAZUHIKO NAKAYAMA
[PRINTED NAME OF WITNESS]

WITNESSED:

DATE: July 23, 2002

Makoto Kawaguchi
[SIGNATURE OF WITNESS]

MAKOTO KAWAGUCHI
[PRINTED NAME OF WITNESS]

A S S I G N M E N T

I, **SHUSUKE WADA**, a citizen of Japan, of 36-11, Shinbashi 5-chome, Minato-ku, Tokyo, 105-0004, Japan, for good and valuable consideration, have assigned and do hereby assign to **FDK CORPORATION**, a joint-stock company of Japan, with its principal place of business at 36-11, Shinbashi 5-chome, Minato-ku, Tokyo, 105-0004, Japan (hereinafter Assignee), its successors, assigns and legal representatives, the entire right, title and interest in and to all subject matter disclosed in the application for Letters Patent of the United States Application No. 10/173,237 (applicant's representative is authorized to insert application number after execution of this document) entitled:

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ASSIGNMENT
Abe et al.

Atty Docket No. 39320-6158

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I agree to do all acts and sign all documents necessary to secure, defend and maintain all said Letters Patent and rights, including any continuations, divisionals, reissues, renewals and extensions, and request issuance of all said Letters Patent to the above Assignee in accordance with this assignment.

Date: August 1, 2002

Shusuke Wada
SHUSUKE WADA

WITNESSED:

DATE: August 1, 2002

Kazuhiro Nakayama
[SIGNATURE OF WITNESS]

KAZUHIKO NAKAYAMA
[PRINTED NAME OF WITNESS]

WITNESSED:

DATE: August 1, 2002

Makoto Kawaguchi
[SIGNATURE OF WITNESS]

MAKOTO KAWAGUCHI
[PRINTED NAME OF WITNESS]