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HDP Docket No. 3557G-000049/CO  
Express Mail Label No. EV 406 076 269 US

To the Director of the U.S. Patents and Trademark Office. Please record the attached documents or the new address(es) below.

**1. Name of conveying party(ies)/Execution Date(s):**

Hiroaki ONO  
Shohei ABE  
Hideo TAKESHITA  
Hiroki TATARA  
Kazuhide KUBO

11/23/04

Execution Date(s) September 23, 2004

Additional name of conveying party(ies) attached? ☐ Yes ☒ No

**3. Nature of conveyance:**

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

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

Name: FDK Corporation

Internal Address: \_\_\_\_\_

Street Address: 36-11, Shinbashi 5-chome

Minato-ku

City: Tokyo

State: \_\_\_\_\_

Country: Japan Zip: 105-0004

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

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

A. Patent Application No.(s)

10/938,366

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

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Gregory A. Stobbs

Internal Address: Harness, Dickey & Pierce, P.L.C.

Street Address: P.O. Box 828

City: Bloomfield Hills

State: MI

Zip: 48303

Phone Number : 248-641-1600

Fax Number: 248-641-0270

Email Address: stobbs@hdp.com

**6. Total number of applications and patents involved: 1**

**7. Total fee (37 CFR 1.21(h) & 3.41)**

\$ 40.00

- ☐ Authorized to be charged by credit card  
☐ Authorized to be charged to deposit account  
☒ Enclosed  
☐ None required (government interest not affecting title)

**8. Payment Information**

a. Credit Card Last 4 Numbers \_\_\_\_\_  
Expiration Date \_\_\_\_\_

b. Deposit Account Number 08-0750

Authorized User Name \_\_\_\_\_

**9. Signature :**

Greg Stobbs  
Signature

November 23, 2004

GREGORY A. STOBBS

Date

Total number of pages including cover  
sheet, attachments, and documents

3

Name of Person Signing

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:  
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

**PATENT**  
**REEL: 016021 FRAME: 0917**

# ASSIGNMENT

Atty. Docket No. 3557G-  
000049/C0

WHEREAS, the undersigned, hereinafter referred to collectively as Assignor, has invented:

## REFLECTIVE OPTICAL SWITCH

for which Assignor is about to make or has made United States or International application for patent

- (a) ☐ executed on even date preparatory to filing (each inventor should sign this Assignment on the same day as he/she signs the Declaration and Power of Attorney);
- (b) ☐ executed on \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_;
- (c) ☒ filed on March 10, 2003, and assigned Serial No. \_\_\_\_\_ or PCT International Application No. PCT/JP03/02795;
- (d) ☐ U.S. Patent No. \_\_\_\_\_, issued \_\_\_\_\_; or
- (e) ☐ entitled above and naming the undersigned inventors in this provisional patent application; and

WHEREAS FDK CORPORATION, 36-11, Shinbashi 5-chome, Minato-ku, Tokyo, 105-0004, Japan, hereinafter referred to as Assignee, is desirous of acquiring an interest therein:

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy whereof is hereby acknowledged, Assignor by these presents does sell, assign and transfer unto Assignee and its successors in interest, the full and exclusive right, title and interest in the United States of America and all foreign countries, including the right to claim priority under the laws of the United States, the Paris Convention, and any foreign countries, to the said invention as described in the aforesaid application, said application for patent and all Letters Patent therefor to be held and enjoyed by Assignee to the full end of the term for which said Letters Patent are granted and any extensions thereof as fully and entirely as the same would have been held by Assignor had this assignment and sale not been made, and the right to recover for past infringements of, or liabilities for, any of the rights relating to any of said applications or patents resulting therefrom;

Assignor hereby covenants and agrees to execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent in the United States and in all foreign countries including, but not limited to, any provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, and as to letters patent any reissue, re-examination, or extension thereof, and for litigation regarding, or for the purpose of protecting title and to the said invention, the United States application for patent, or Letters Patent therefor, and to testify in support thereof, for the benefit of Assignee without further or other compensation than that above set forth;

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

Assignor hereby requests the Commissioner of Patents and Trademarks to issue said Letters Patent of the United States of America to Assignee, and requests that any official of any country or countries foreign to the United States, whose duty it is to issue or grant patents and applications as aforesaid, to issue said Letters Patent, Utility Model Registration or Inventor's Certificate to Assignee.

Assignor hereby authorizes my attorney to insert here in parentheses (Application No. 10/938,366, filed 09-10-04) the filing date and application number of said application when known.

# ASSIGNMENT

Hiroaki Ono  
First Inventor Hiroaki ONO

September 23, 2004  
Dated

Shohei Abe  
Second Inventor Shohei ABE

September 23, 2004  
Dated

Hideo Takeshita  
Third Inventor Hideo TAKESHITA

September 23, 2004  
Dated

Hiroki Tatora  
Fourth Inventor Hiroki TATARA

September 23, 2004  
Dated

Kazuhide Kubo  
Fifth Inventor Kazuhide KUBO

September 23, 2004  
Dated

          
Sixth Inventor

          
Dated

Ikuro Maeda  
Witness

Yuko Ota  
Witness

Ikuro Maeda  
Witness

Yuko Ota  
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Ikuro Maeda  
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Yuko Ota  
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Ikuro Maeda  
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Ikuro Maeda  
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Yuko Ota  
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Witness