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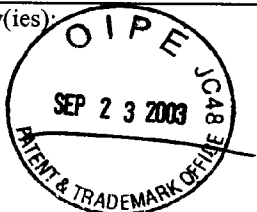
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U.S. DEPARTMENT OF COMMERCE
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To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
Daisuke NAKAYA
Takeshi FUJII
Yoji OKAZAKI
Kazuhiko NAGANO
Hiromi ISHIKAWA



2. Name and address of receiving party(ies):
FUJI PHOTO FILM CO., LTD.
No. 210 Nakanuma,
Minami-Ashigara-shi,
Kanagawa,
Japan

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

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other

Execution Date: May 30, 2003 and June 2, 2003

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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)
10/456,965

B. Patent No.(s)
Not Yet Assigned
Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
SUGHRUE MION, PLLC
WASHINGTON OFFICE
23373
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6. Total number of applications and patents involved:
1
7. Total fee (37 CFR 3.41): \$40.00
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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.

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MAIL STOP ASSIGNMENT RECORDATION SERVICES
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Assignment

Whereas, I/We, Daisuke Nakaya, Takeshi Fujii, Yoji Okazaki,
Kazuhiko Nagano and Hiromi Ishikawa of

Kanagawa, Japan

hereinafter called assignor(s), have invented certain improvements in

OPTICAL WIRING SUBSTRATE FABRICATION PROCESS AND
OPTICAL WIRING SUBSTRATE DEVICE

and executed an application for Letters Patent of the United States of America therefor on
May 30, 2003 ; and
June 2, 2003

Whereas, FUJI PHOTO FILM CO., LTD. of No. 210 Nakanuma, Minami-Ashigara-shi,
Kanagawa, Japan

(assignee), desires to acquire the entire right, title, and interest in the application and invention,
and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee,
its successors and assigns, the entire right, title and interest in the application and the invention disclosed
therein for the United States of America, including the right to claim priority under 35 U.S.C. §119, and
I/we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth
in the application to the assignee, its successors and assigns; and I/we will execute without further
consideration all papers deemed necessary by the assignee in connection with the United States
application when called upon to do so by the assignee.

I/We hereby authorize and request our attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania
Avenue, NW, Washington, DC 20037-3212 to insert here in parentheses (Application
number _____, filed _____) the filing date and application number of said
application when known.

Date: May 30, 2003 Daisuke Nakaya
s/

Date: May 30, 2003 Takeshi Fujii
s/

Date: May 30, 2003 Yoji Okazaki
s/

Date: May 30, 2003 Kazuhiko Nagano
s/

Date: June 2, 2003 Hiromi Ishikawa
s/

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261) 8/92