

06-28-2002

Q69326

Form PTO-1595 (modified)

(Rev. 03/01)

OMB No. 0651-0027



FEET

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

1. Name of conveying party(ies):

Yuki SHIOTA
Osamu NOZAWA
Hideaki MITSUI



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

HOYA CORPORATION
7-5, Naka-Ochiai, 2-chome, Shinjuku-ku,
Tokyo, Japan

6-24-02

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

3. Nature of conveyance:

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

Execution Date: June 14, 2002

Additional name(s) & 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)
10/107,825

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

SUGHRUE MION, PLLC
2100 Pennsylvania Avenue, N.W.
Suite 800
Washington, D.C. 20037-3213

6. Total number of applications and patents involved:

1

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

- ☒ Enclosed.
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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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June 24, 2002

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Total number of pages including cover sheet, attachments, and documents: 2

Mail documents to be recorded with required cover sheet information to:

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Box Assignment

Washington, D.C. 20231

06/27/2002 LMEILLER 00000084 10107825

01 FC:581

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PATENT
REEL: 013024 FRAME: 0723

ASSIGNMENT

Whereas, I/we Yuki Shiota, Osamu Nozawa, and Hideaki Mitsui, of
Tokyo, Japan,

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

HALFTONE PHASE-SHIFT MASK BLANK AND

HALFTONE PHASE-SHIFT MASK

and executed an application for Letters Patent of the United States of America therefor on

June 14, 2002; and

Whereas, **HOYA CORPORATION** of
7-5, Naka-Ochiai, 2-Chome, Shinjuku-ku, Tokyo, 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 Director – U.S. Patent and Trademark Office 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 my/our attorneys SUGHRUE MION, PLLC of 2100
Pennsylvania Avenue, N.W., Washington, D.C. 20037-3213 to insert here in parentheses (Application
number 10/107,825, filed March 28, 2002) the filing date and application
number of said application when known.

Date: June 14, 2002 s/ 塩田 勇樹
Yuki Shiota

Date: June 14, 2002 s/ Osamu Nozawa
Osamu Nozawa

Date: June 14, 2002 s/ Hideaki Mitsui
Hideaki Mitsui

Date: s/ _____

Date: s/ _____

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