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FORM PTO-1595

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U.S. DEPARTMENT OF COMMERCE
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PATENTS ONLY

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To the Assistant Commissioner for Patents:
Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Kiyotaka MIURA

1.8.01

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

3. Nature of conveyance:

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

Execution Date: 26 December 2000

2. Name and address of receiving party(ies)

Name: Central Glass Co., Ltd.

Internal Address: _____

Street Address: 5253, Oaza Oki-Ube, Ube-shi,
Yamaguchi-ken 755-0001 Japan

City: _____

State: _____ ZIP: _____

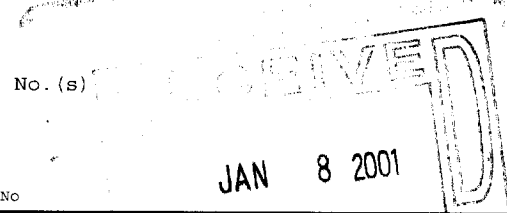
Additional name(s) & address(es) attached? Yes No

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)

09/601,811

B. Patent No. (s)



Additional numbers attached? Yes No

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

Name: Russell D. Orkin

Internal Address: Webb Ziesenheim Logsdon

Orkin & Hanson, P.C.

Street Address: 700 Koppers Building

436 Seventh Avenue

City: Pittsburgh State: PA ZIP: 15219-1818

6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 3.41).....\$ 40

- Enclosed with filing fee
- Authorized to be charged to deposit account

8. Deposit account number:

(Attach triplicate copy of this page if paying by deposit account)

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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.

Russell D. Orkin

Name of Person Signing

Signature

January 4, 2001

Date

Reg. No. 25,363

Total number of pages including cover sheet, attachments and document

2

Mail documents to be recorded with required cover sheet information to:
Assistant Commissioner for Patents, U.S. Patent and Trademark Office
Office of Public Records, Crystal Gateway 4, Room 335
Washington, D.C. 20231

01/23/2001 6TON11 00000147 09601811

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PATENT
REEL: 011441 FRAME: 0338

ASSIGNMENT

WHEREAS, I, Kiyotaka MIURA, residing in 13-22, Suzaku 1-chome, Nara-shi, Nara-ken, 631-0806 Japan, am a named co-inventor and joint owner of United States Patent Application Serial No. 09/601,811, filed on August 8, 2000 and entitled "AN OPTICAL WAVEGUIDE ARRAY AND FABRICATION THEREOF";

AND, WHEREAS, Central Glass Co., Ltd., a corporation of Japan having a place of business at 5253, Oaza Oki-Ube, Ube-shi, Yamaguchi-ken 755-0001 Japan, hereinafter called the "assignee", is desirous of acquiring my entire right, title, and interest in and to said application and the inventions and improvements therein disclosed.

NOW, THEREFORE, for good and valuable consideration paid to me by said assignee, the receipt of which is hereby acknowledged, I do hereby assign, sell, transfer, and set over unto said assignee the entire right, title and interest in and to said application and the inventions and improvements therein disclosed for the United States and any Letters Patent which may issue therefor in the United States and all divisions, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof, said assignee to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by me had this assignment not been made.

The Commissioner of Patents and Trademarks is requested to issue such Letters Patent in accordance herewith.

And for the consideration aforesaid, I agree that I will communicate to said assignee or the representatives thereof any facts known to me respecting said inventions and improvements, and will, upon request, but without expense to me, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, continuation-in-part, renewal, and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said assignee or by counsel for said assignee, to assist or enable said assignee to obtain and enforce full benefits from the rights and interests herein assigned. This assignment shall be binding upon my heirs, executors, administrators, and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said assignee.

| | | |
|-----------------------|------------------------------|-----------------|
| <u>Kiyotaka MIURA</u> | <u><i>Kiyotaka Miura</i></u> | <u>26.12.00</u> |
| NAME OF ASSIGNOR | SIGNATURE | DATE |

99-01US