

05-29-2001



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Commission

U.S. DEPARTMENT OF COMMERCE
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attached original documents or copy thereof.

1. Name of conveying party(ies):

TOA PHOTONICS CO., LTD.

5-23-01

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

3. Nature of conveyance:

X Assignment

Merger

Security Agreement

Change of Name

Other:

Execution Date: March 26, 2001

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

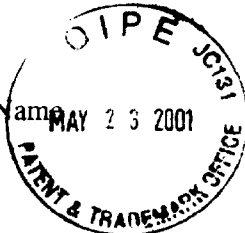
Name: Lee Suu Won

St. Address: 1-10-8, Honhaneda, Oota-ku

City: Tokyo

Postal Code: 144-0044 Country: Japan

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



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)

B. Patent No.(s)

5,247,179

Additional numbers attached? Yes _ No X

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

Ronald R. Snider
P.O. Box 27613
Washington, D.C. 20038-7613
(202-347-2600)

6. Total number of applications and patents involved: 1

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

X Enclosed

X Authorized to be charged to deposit account if any error.

8. Deposit account number:

19-2816

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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.

Ronald R. Snider

Name of Person Signing
Registration No. 24,962

Signature

May 23, 2001

Date

Total number of pages comprising cover sheet, attachments and document: 2

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

Commissioner of Patents and Trademarks

Box Assignments

Washington, D.C. 20231

ASSIGNMENT

WHEREAS I/We, the below named Assignor(s), are the owners of the following United States Patent:

Patent No.: 5,247,179
Issue Date: September 21, 1993
Title: Activation Energy Providing Device

Previous Assignment Recorded on : June 26, 1996
Reel/Frame: 8000/0863

WHEREAS, LEE SUU WON
(Full Name of Assignee)

a corporation of _____
(Country of Incorporation)

whose post office address is 1-10-8, HONHANEDA, OOTA-KU, TOKYO 144-0044 JAPAN
(hereinafter referred to as Assignee)

is desirous of securing the entire right, title, and interest in and to the patent(s) and continuations thereof;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/We, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this patent and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof; and I/We hereby authorize and request the Commissioner of Patents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with assignee, its successors and assigns, any facts known to me/us respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I/We have hereunto set our hand(s).

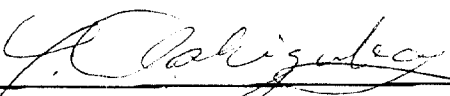
Full Name and Address of Sole ASSIGNOR

TOA PHOTONICS CO., LTD.

HIGASHI-MACHI 27-16, NAHA-SHI, OKINAWA 900-0034 JAPAN

JAPANESE

Citizenship of Person Signing


Signature YUKIKO ISHIZUKA
PRESIDENT

March 26, 2001
Date

LAW OFFICE OF RONALD R. SNIDER
PO Box 27613, Washington, DC 20038-7613