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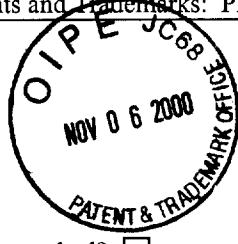
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Our Ref.: 1035-277

Commissioner of Patents and Trademarks
Box Assignment, Washington, D.C. 20231

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

<p>1. Name of conveying party(ies): Yoshihiro IZUMI Osamu TERANUMA Toshinori YOSHIMUTA Shinya HIRASAWA</p> <p>Additional name/s of conveying party/ies attached? <input type="checkbox"/></p> <p>3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Assignment <input type="checkbox"/> Change of Name <input type="checkbox"/> Other</p> <p>Execution Date: <u>October 13, 2000, October 13, 2000, October 16, 2000 and October 16, 2000, respective</u></p>	<p>2. Name and address of receiving party(ies):</p> <p>Name: <u>SHARP KABUSHIKI KAISHA</u> Internal Address: _____ Street Address: <u>22-22 Nagaike-cho, Abeno-ku</u> _____ _____</p> <p>City: <u>Osaka</u> State/Country: <u>Japan</u> Zip: <u>545-8522</u></p> <p>Additional name/s & address/es attached? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>
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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: _____

<p>A. Patent Application No(s). (1) <u>09/657,528</u> (2) _____ (3) _____</p>	<p>B. Patent No(s). (1) _____ (2) _____ (3) _____</p> <p>Additional numbers attached <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
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<p>5. Name and address of party to whom correspondence concerning document should be mailed:</p> <p>Name: <u>H. Warren Burnam, Jr.</u> Internal Address: _____ Street Address: <u>Nixon & Vanderhve P.C.</u> <u>1100 North Glebe Road</u> <u>8th Floor</u> City: <u>Arlington</u> State: <u>VA</u> Zip: <u>22201</u></p>	<p>6. Total number of applications & patents involved: <u>1</u></p> <p>7. Total fee (37 CFR 3.41) \$ <u>40.00</u> <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account #14-1140</p> <p>8. The Commissioner is hereby authorized to charge any <u>deficiency</u> in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper thereafter filed in this application by this firm) to our Account No. 14-1140.</p>
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DO NOT USE THIS SPACE

9. Statements 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.

<u>H. Warren Burnam, Jr.</u>	<u><i>[Signature]</i></u>	<u>November 6, 2000</u>
Name of Person Signing Reg. No. 29,366	Signature	Date

Total number of pages including **original** cover sheet, attachments, and document: [3]

RECORDATION FORM COVER SHEET

PATENTS ONLY

Our Ref: 1035-277

Commissioner of Patents and Trademarks
Box Assignment, Washington, D.C. 20231

1. Name of conveying party(ies):

2. Name: SHIMADZU CORPORATION

Street Address: 1, Nishinokyokuwabara-cho, Nakagyo-ku

City: Kyoto

State: Japan

Zip: 604-8511

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

A. Patent Application No(s).

(4)

(5)

(6)

(7)

(8)

(9)

B. Patent No(s).

(4)

(5)

(6)

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ASSIGNMENT OF U.S. PATENT APPLICATION

(Inventors) Yoshihiro IZUMI
Osamu TERANUMA
Toshinori YOSHIMUTA
Shinya HIRASAWA

In consideration of the sum of one dollar (\$1.00) and other good and valuable considerations paid to each of the undersigned, the undersigned agree(s) to assign, and hereby does assign, transfer and set over to
(Assignee) SHARP KABUSHIKI KAISHA a corporation of Osaka, Japan
(Address) 22-22 Nagaike-cho Abeno-ku Osaka 545-8522 Japan; and
(Assignee) SHIMADZU CORPORATION a corporation of Kyoto, Japan
(Address) 1, Nishinokyokuwabara-cho Nakagyo-ku Kyoto 604-8511 Japan

(Title) (hereinafter designated as the Assignee) the undersigned's entire right, title and interest for the United States, its territories, dependencies and possessions in the invention, and all applications for patent and any Letters Patent which may be granted therefore, known as
MANUFACTURING METHOD FOR TWO-DIMENSIONAL IMAGE DETECTORS
AND TWO-DIMENSIONAL IMAGE DETECTORS

for which the undersigned has (have) executed on even date herewith an application for patent in the United States of America or, if not on even date, then has executed on Oct. 13, 2000 and Oct. 16, 2000 or has already filed U.S. application Serial No. 09/657,528, on Sep. 8, 2000.

The undersigned acknowledges an obligation of assignment of this invention to said assignee at the time the invention was made.

The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient and further to perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.

The undersigned hereby grant(s) the firm of NIXON & VANDERHYE P.C. the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned signature(s).

Date	<u>Oct. 13, 2000</u>	Signature of inventor	<u>Yoshihiro Izumi</u>
Date	<u>Oct. 13, 2000</u>	Signature of inventor	<u>Osamu Teranuma</u>
Date	<u>Oct. 16, 2000</u>	Signature of inventor	<u>Toshinori Yoshimuta</u>
Date	<u>Oct. 16, 2000</u>	Signature of inventor	<u>Shinya Hirasawa</u>
Date	_____	Signature of inventor	_____

Witnessed by: _____
 Witnessed by: _____

Date _____
 Date _____