

U.S. PATENT AND TRADEMARK OFFICE

Attorney Docket No. 70404.8

Form PTO-1595
1-31-92

U.S. DEPARTMENT OF COMMERCE
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PATENTS ONLY

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

Name of conveying party(ies): **Yoichiro SAKAKI**

Additional name(s) of conveying party(ies) attached? yes no

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

(2a.)
Name: Sharp Kabushiki Kaisha
Address: 22-22, Nagaikecho, Abeno-ku, Osaka 545-8522, Japan

3. Name of Conveyance:

 Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: **October 16, 2003**

(2b.)
Name _____
Address: _____

Additional name(s) & address(es) attached? yes no

4. Application number(s) or patent number(s): **10/652,166**

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s) **10/652,166**

B. Patent No.(s)

Additional numbers attached yes no

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

Name: Joseph R. Keating, Esq.
Internal Address: KEATING & BENNETT LLP

Street Address: 10400 Eaton Place, Suite 312
City: Fairfax State: VA ZIP: 22030

6. Total number of applications and patents involved: one

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

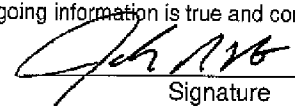
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 Authorized to be charged to credit card with Credit Card Payment Form (PTO-2038)
 Authorized to be charged to deposit account

8. Deposit account number: 50-1353

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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.

Joseph R. Keating, Reg. No. 37,368
Name of Person Signing  Signature May 11, 2004 Date

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

Mail documents to be recorded with required cover sheet information to:
**Assistant Commissioner for Patents
Box Assignment
Washington, D.C. 20231**

OP \$40.00 10652166

Attorney Docket No.: 70404.8

ASSIGNMENT (WORLDWIDE)

WHEREAS, We, Yoichiro SAKAKI
(hereinafter referred to as ASSIGNOR), have invented and own a certain invention entitled

ELECTRONIC MODULE AND DRIVING CIRCUIT BOARD THEREFOR,

for which application for Letters Patent of the United States has been

____ executed on even date herewith;
x filed on September 2, 2003 as Serial No. _____

WHEREAS, **SHARP KABUSHIKI KAISHA, 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka 545-8522 JAPAN** (hereinafter referred to as ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention and the United States Letters Patent to be obtained therefor;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that in consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the full and exclusive right, title and interest to the said invention and all Letters Patent of the United States to be obtained therefor on said application or any continuation, division, renewal, substitute or reissue thereof for the full term or terms for which the same may be granted; and all Letters Patent and applications therefor through the world, including all the rights accruing by virtue of the International Convention for the Protection of Industrial Property.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent as may be known and accessible to ASSIGNOR and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain and enforce said application, said invention and said Letters Patent which may be necessary or desirable to carry out the purposes hereof.

Dated:

October 16, 2003

Yoichiro Sakaki
(Yoichiro SAKAKI)