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To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies):

Masahiro HONBOH

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

2. Name and address of receiving party(ies)

Name: Sharp Kabushiki Kaisha

Internal Address: _____

Street Address: _____

22-22, Nagaike-cho, Abeno-ku
Osaka-shi, Osaka

City: _____

State: _____

Country: JAPAN Zip: 545-8522

Additional name(s) & address(es) attached: ☐ Yes ☒ No

3. Nature of conveyance/Execution Date(s):

Execution Date(s): May 18, 2005

☒ Assignment ☐ Merger ☐ Change of Name☐ Security Agreement ☐ Joint Research Agreement☐ Government Interest Assignment☐ Executive Order 9424, Confirmatory License☐ Other _____

4. Application or patent number(s):

☒ This document is being filed together with a new application.

A. Patent Application No. (s)

NEW

B. Patent No. (s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Charles Gorenstein
BIRCH, STEWART, KOLASCH & BIRCH,
LLP

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6. Total number of applications and patents involved:

1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☐ Authorized to be charged by credit card
- ☐ Authorized to be charged to deposit account
- ☒ Enclosed
- ☐ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____b. Deposit Account Number _____
Authorized User Name _____

9. Signature:

Signature

June 2, 2005

Date

Charles Gorenstein - 29,271

Name of Person Signing

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

3

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Birch, Stewart, Kolasch & Birch, LLP

CG/pjw

PATENT
REEL: 016659 FRAME: 0925

ASSIGNMENT

Application No. NEWFiled June 2, 2005Insert Name(s)
of Inventor(s)WHEREAS, HONBOH, MasahiroInsert Title
of Invention

(hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in

SEMICONDUCTOR DEVICE AND ELECTRONIC APPARATUS

for which an application for Letters Patent of the United States of America has been executed by the undersigned
(except in the case of a provisional application).Insert Date
of Signing of
Applicationon May 18, 2005; andInsert Name
of AssigneeWHEREAS, SHARP KABUSHIKI KAISHAInsert Address
of Assigneeof 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka 545-8522 JapanCHECK BOX
IF APPROPRIATE

its heirs, successors, legal representatives and assigns (hereinafter designated as the Assignee) is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor in the United States of America and

☐ in any and all foreign countries.

NOW, THEREFORE, in consideration of the sum of Ten Dollars (\$10.00) to the undersigned in hand paid, the receipt of which is hereby acknowledged, and other good and valuable consideration, the undersigned has (have) sold, assigned and transferred, and by these presents does sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States of America, its territories, dependencies and possessions and the entire right, title and interest in and to any and all Letters Patent(s) which may be granted therefor in the United States of America, its territories, dependencies and possessions, and if the box above is designated, in any and all foreign countries;

and to any and all divisions, reissues, continuations, conversions and extensions thereof for the full term or terms for which the same may be granted.

The undersigned agree(s) to execute all papers necessary in connection with this application and any continuing, divisional, conversion or reissue applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation, division, conversion or reissue thereof or Letter Patent(s) or reissue patent issued thereon and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference.

The undersigned agree(s) to execute all papers and documents and to perform any act which may be necessary in connection with claims or provisions of the International Convention for the 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 of America patent(s) or a grant of a valid United States of America and any foreign patent(s) to the Assignee and to vest all rights therein hereby conveyed to said Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment and sale had not been made.

The undersigned hereby authorize(s) and request(s) the Patent and Trademark Office Officials in the United States of America and in any foreign countries to issue any and all Letters Patents resulting from said application or any continuing, divisional conversion or reissue applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) the 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 law firm of Birch, Stewart, Kolasch & Birch, LLP 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 U.S. Patent and Trademark Office for recordation of this document.

The undersigned hereby covenant(s) that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

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

Date <u>18/05/2005</u> ,	Name of Inventor <u>Masahiro Honbo</u> (signature) HONBOH, Masahiro
Date _____ ,	Name of Inventor _____ (signature)
Date _____ ,	Name of Inventor _____ (signature)
Date _____ ,	Name of Inventor _____ (signature)
Date _____ ,	Name of Inventor _____ (signature)
Date _____ ,	Name of Inventor _____ (signature)