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U.S. DEPARTMENT OF COMMERCE

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Patent and Trademark Office
Docket No. 544782000100

3-25-03

102410581

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

1. Name of conveying party(ies):
Masayuki TAJIRI and Nobuyoshi AWAYA
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, Nagaikecho
City: Abeno-ku, State: Osaka ZIP: 545-8522
Country: Japan
Additional name(s) & address(es) attached? Yes No

10/397090
03/25/03

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other:
Execution Date: March 6, 2003 for both conveying parties

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: March 6, 2003
A. Patent Application No.(s) B. Patent No.(s)
Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
Alan S. Hodes
Morrison & Foerster LLP
755 Page Mill Road
Palo Alto, California 94304-1018

6. Total number of applications and patents involved: One (1)
7. Total fee (37 C.F.R. § 3.41): \$40.00
 Enclosed
 Authorized to be charged to deposit account, referencing Attorney Docket 544782000100
8. Deposit account number: 03-1952

The Commissioner is hereby authorized to charge any fees under 37 C.F.R. § 1.21 that may be required by this paper, or to credit any overpayment to Deposit Account No. 03-1952.

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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.
Name: Alan S. Hodes
Registration No: 38,185
Signature: Date: 3-25-03

Total number of pages comprising cover sheet, attachments and document: Three (3)

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Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents and Trademarks
Box Assignments
Washington, D.C. 20231

ATTORNEY DOCKET NO.

ASSIGNMENT

Application No. _____ Filed _____

Insert Name(s) of Inventor(s) → WHEREAS, TAJIRI, Masayuki and AWAYA, Nobuyoshi

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

Insert Title of Invention → INTEGRATED CIRCUIT APPARATUS AND NEURO ELEMENT

for which an application for Letters Patent of the United States of America has been executed by the undersigned

Insert Date of Signing of Application → on March 6, 2003; and

Insert Name of Assignee → WHEREAS, SHARP KABUSHIKI KAISHA

Insert Address of Assignee → of 22-22, Nagaikecho, Abeno-ku, Osaka 545-8522 Japan

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

CHECK BOX IF APPROPRIATE → 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, assigned 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 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 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 or reissue thereof or Letters Patent(s) or reissue patent issue 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) the 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 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 Morrison & Foerster 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.

Date 3/6/03 Name of Inventor Masayuki Tajiri (TAJIRI, Masayuki)
(signature)

Date 3/6/03 Name of Inventor Nobuyoshi Awaya (AWAYA, Nobuyoshi)
(signature)

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)

Date _____ Name of Inventor _____
(signature)