

08-29-2003

Atty. Docket No.: 1248-0664P

Page 1 of 1



SHEET

102537706

To the Director of the U.S. Patent and Trademark Office:
Please record the attached original documents or copy thereof.

03970 U.S. PTO
10/645661
08/22/03

1. Name of conveying party(ies):

[FAMILY NAME (ALL CAPS), Given Name]

NAKAJIMA, Akio

FURUTA, Kohichi

MATSUI, Takao

4RD

8.22.03

2. Name and address of receiving party(ies)

Name: SHARP KABUSHIKI KAISHA

Internal Address:

Street Address: 22-22, Nagaike-cho Abeno-ku

City: Osaka

State:

ZIP:

Country: Japan

Postal Code: 545-8522

Additional name(s) & address(es) attached? ☐ YES ☒ NO

Additional name(s) of conveying party(ies) attached?

☐ YES ☒ NO

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other:

Execution Date: July 10 and 11, 2003

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: July 10 and 11, 2003

A. Patent Application No(s).

NEW

10645661

B. Patent No.(s).

Additional numbers attached? ☐ YES ☒ NO

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

Name: BIRCH, STEWART, KOLASCH & BIRCH, LLP

Street Address: P.O. BOX 747

City: FALLS CHURCH State: VA ZIP: 22040-0747

Country: USA

6. Total No. of applications/patents involved: one (1)

7. Total fee (37 C.F.R. § 3.41): \$40.00

☒ Enclosed☒ Authorized to be charged to deposit account,
if no fee attached.

8. Deposit account number: 02-2448

(Attach triplicate copy of this page
if paying by deposit account)

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9. Statement and signature.

Terrell C. Birch, #19,382

Name of Person Signing/Reg. No.

Signature

August 22, 2003

Date

Total number of pages including cover sheet, attachments, and document: five (5)

08/25/2003 WABRHAM1 00000003 10645661

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TCB:MH/pjh

(Rev. 04/30/03)

PATENT
REEL: 014429 FRAME: 0747

BIRCH, STEWART, KOLASCH & BIRCH, LLPUNITED STATES PATENT RIGHTS, OR
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS**ASSIGNMENT**

Application No. _____

Filed August 22, 2003Insert Name(s)
of Inventor(s)*****(Given Name FAMILY NAME (ALL CAPS))*****WHEREAS, Akio NAKAJIMA ; Kohichi FURUTA_____

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

Insert Title
of InventionCOMPARATOR CIRCUIT

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 July 10, 2003 ; andInsert Name
of AssigneeWHEREAS, SHARP KABUSHIKI KAISHAInsert Address
of Assigneeof 22-22, Nagaike-cho 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 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>July 10, 2003</u>	Name of Inventor <u>Akio Nakajima</u> (signature) Akio NAKAJIMA
Date <u>July 10, 2003</u>	Name of Inventor <u>Kohichi Furuta</u> (signature) Kohichi FURUTA
Date _____	Name of Inventor _____ (signature)
Date _____	Name of Inventor _____ (signature)
Date _____	Name of Inventor _____ (signature)
Date _____	Name of Inventor _____ (signature)

BIRCH, STEWART, KOLASCH & BIRCH, LLPUNITED STATES PATENT RIGHTS, OR
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS**ASSIGNMENT**

Application No. _____

Filed August 22, 2003Insert Name(s)
of Inventor(s)*****(Given Name FAMILY NAME (ALL CAPS))*****WHEREAS, Takao MATSUI ;

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

Insert Title
of InventionCOMPARATOR CIRCUIT

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Insert Date
of Signing of
Applicationon July . 11 . 2003 ; andInsert Name
of AssigneeWHEREAS, SHARP KABUSHIKI KAISHAInsert Address
of Assigneeof 22-22, Nagaike-cho 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

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IF APPROPRIATE☐ in any foreign countries.

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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.

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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>July. 11. 2003</u>	Name of Inventor <u>Takao Matsui</u> (signature) Takao MATSUI
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)