

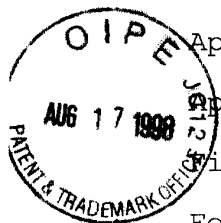
10-13-1998



PATENT

100795257

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



Applicants: Masafumi SATOMURA et al.
Application No.: 09/063,357 Group: Unknown
Filed: April 21, 1998 Examiner: Unknown
For: THERMOELECTRIC DEVICE AND
THERMOELECTRIC MODULE

MRD 8-17-98

Date: August 17, 1998

Docket No.: 2936-101P

RECORDING OF ASSIGNMENT

Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

Sir:

Please record the attached original documents or copy thereof.

1. Name of Conveying party(ies) (e.g. inventor(s)):

Masafumi SATOMURA
Ichiro YAMASAKI
Ryousuke YAMANAKA

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

SHARP KABUSHIKI KAISHA
22-22 Nagaike-Cho
Abeno-Ku, Osaka-Shi
Osaka 545-0013, JAPAN

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PATENT
REEL: 9357 FRAME: 0741

Application No.: 09/063,357

3. Nature of Conveyance:

- ☒ Assignment
☐ Security Agreement
☐ Merger
☐ Change of Name
☒ Other Correction to Assignee's name and reexecution of Assignment executed March 24, 1998 (filed April 21, 1998) to correct Assignee's name.

Execution Date (e.g., Assignment): March 24, 1998

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

If this document is being filed together with a new patent application, the execution date(s) of the application (Declaration) is (are) _____.

A. Patent Application Number(s):

09/063,357

B. Patent Number(s):

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

Birch, Stewart, Kolasch & Birch, LLP
P.O. Box 747
Falls Church, VA 22040-0747
(703) 205-8000

6. Total number of applications and patents involved: one (1)

7. ☒ The recording fee in the amount of \$40.00 is enclosed.

8. ☐ Please charge Deposit Account No. 02-2448 in the amount of \$_____. A duplicate copy of this request is enclosed.

If necessary, the Commissioner is hereby authorized in this,

Application No.: 09/063,357

concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 02-2448 for any additional fees required under 37 C.F.R. §§ 1.16-1.21(h); particularly, extension of time fees.

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.

Respectfully submitted,

BIRCH, STEWART, KOLASCH & BIRCH, LLP

Date: August 17, 1998

By



Charles Gorenstein

Reg. No. 29,271

P.O. Box 747

Falls Church, VA 22040-0747

(703) 205-8000

CG/JTE/dlt

TOTAL NUMBER OF PAGES INCLUDING COVER SHEET,
ATTACHMENTS, AND DOCUMENT: Nine (9)

Rev. 12/9/97
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3. Nature of Conveyance:

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☐ Security Agreement
☐ Merger
☐ Change of Name
☐ Other _____

Execution Date: March 24, 1998

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

If this document is being filed together with a new patent application, the execution date(s) of the application is (are) MARCH 24, 1998

A. Patent Application No.(s):

B. Patent No.(s):

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Birch, Stewart, Kolasch & Birch, LLP
P. O. Box 747
Falls Church, VA 22040-0747
(703) 205-8000

6. Total Number of applications and patents involved: One (1)

7. ☒ The recording fee in the amount of \$ 40.00 is enclosed.

8. ____ Please charge Deposit Account No. 02-2448 in the amount of \$_____. A duplicate copy of this request is enclosed.
9. X If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account 02-2448 for any additional fees required under 37 C.F.R. 1.16 or under 37 C.F.R. 1.17; particularly, extension of time fees.

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.

Respectfully submitted,

BIRCH, STEWART, POLASCH & BIRCH, LLP

Date: April 21, 1998

By: 

CHARLES GORENSTEIN

Reg. No. 29,271

P. O. Box 747

Falls Church, VA 22040-0747

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/sas

TOTAL NUMBER OF PAGES INCLUDING COVER SHEET,
ATTACHMENTS, AND DOCUMENT: 05

(Rev. 12/21/93)

ATTORNEY DOCKET NO.

2936-101P

ASSIGNMENT

Application No. 09/063,357

Filed April 21, 1998

Insert Name(s)
of Inventor(s)

➡ WHEREAS, Masafumi SATOMURA
Ichiro YAMASAKI
Ryousuke YAMANAKA

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

Insert Title
of Invention

➡ THERMOELECTRIC DEVICE AND THERMOELECTRIC MODULE

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 24, 1998 _____; and

Insert Name
of Assignee

➡ WHEREAS, SHARP KABUSHIKI KAISHA

Insert Address
of Assignee

➡ of 22-22 Nagaike-Cho, Abeno-Ku, Osaka-Shi
Osaka 545-0013, 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, 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 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 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 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 6, 1998</u>	Name of Inventor <u>Masafumi Satomura</u> (signature) Masafumi SATOMURA
Date <u>July 7, 1998</u>	Name of Inventor <u>Ichiro Yamasaki</u> (signature) Ichiro YAMASAKI
Date <u>July 6, 1998</u>	Name of Inventor <u>Ryousuke Yamanaka</u> (signature) Ryousuke YAMANAKA
Date _____	Name of Inventor _____ (signature)
Date _____	Name of Inventor _____ (signature)
Date _____	Name of Inventor _____ (signature)

ASSIGNMENT

Application No. NewFiled April 21, 1998

Insert Name(s) of Inventor(s) ➡ WHEREAS, Masafumi SATOMURA, Ichiro YAMASAKI and Ryousuke YAMANAKA

Insert Title of Invention ➡ (hereinafter designated as the undersigned) has (have) invented certain new and useful improvements in THERMOELECTRIC DEVICE AND THERMOELECTRIC MODULE

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 03/24/1998; and KABUSHIKI KAISHA

Insert Name of Assignee ➡ WHEREAS, SHARP CORPORATION

Insert Address of Assignee ➡ of 22-22, Nagaike-Cho, Abeno-Ku, Osaka-Shi, Osaka 545-0013 Japan

CHECK 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 and extensions thereof for the full term or terms for which the same may be granted.

PATENT

REEL: 9357 FRAME: 0748

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 the 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 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>03/24/1998</u>	Name of Inventor	<u>M. Satomura</u> (signature)	<u>Masafumi SATOMURA</u>
Date	<u>03/24/1998</u>	Name of Inventor	<u>I. Yamasaki</u> (signature)	<u>Ichiro YAMASAKI</u>
Date	<u>03/24/1998</u>	Name of Inventor	<u>R. Yamanaka</u> (signature)	<u>Ryousuke YAMANAKA</u>
Date	_____	Name of Inventor	_____ (signature)	_____
Date	_____	Name of Inventor	_____ (signature)	_____
Date	_____	Name of Inventor	_____ (signature)	_____