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Atty. Docket No.: 0033-0999PUS1

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**RECORDATION FORM COVER SHEET
PATENTS ONLY**

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

1. Name of conveying party(ies)/Execution Date(s):

[FAMILY NAME (ALL CAPS), Given Name]

KATAYAMA, Hiroyuki**OGURA, Yoshiaki**Execution Date(s): **March 3, 2005, March 3, 2005,**

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**City: **Osaka-shi, Osaka**

State:

Zip: **545-8522**Country: **Japan**

Postal Code:

Additional name(s) & address(es) attached? ☐ YES ☒ NO**3. Nature of conveyance:**

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other:

4. Application number(s) 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 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 number of applications and patents involved: ONE (1)**7. Total fee (37 C.F.R. § 1.21(h) & 3.41): **\$40.00**☒ Enclosed☒ Authorized to be charged to deposit account, if no fee attached.8. Deposit account number: **02-2448**

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

DO NOT USE THIS SPACE**9. Signature.**Charles Gorenstein, #29,271

Name of Person Signing/Reg. No.

Signature

April 26, 2005

Date

Total number of pages including cover sheet, attachments, and documents: **Three (3)**

CG/smt

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PATENT
REEL: 017226 FRAME: 0294

UNITED STATES PATENT RIGHTS, OR
UNITED STATES PLUS ALL FOREIGN PATENT RIGHTS

ATTORNEY DOCKET NO.
0033-0999PUS1

ASSIGNMENT

Application No. NEW

Filed 04-26-05

Insert Name(s)
of Inventor(s)

WHEREAS, Hiroyuki KATAYAMA and Yoshiaki OGURA

Insert Title
of Invention

Regenerator, Method and Apparatus for Manufacturing Regenerator,
and Stirling Refrigerator

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

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
Application

on March 3, 2005; and

Insert Name
of Assignee

WHEREAS, Sharp Kabushiki Kaisha

Insert Address
of Assignee

of 22-22, Nagaike-cho, Abeno-ku, Osaka-shi, Osaka 545-8522 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, 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 Letters 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) 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, 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>March 3, 2005</u>	Name of Inventor <u><i>Hiroyuki Katayama</i></u> Hiroyuki KATAYAMA
Date <u>March 3, 2005</u>	Name of Inventor <u><i>Yoshiaki Ogura</i></u> Yoshiaki OGURA
Date _____	Name of Inventor _____
Date _____	Name of Inventor _____
Date _____	Name of Inventor _____
Date _____	Name of Inventor _____
Date _____	Name of Inventor _____
Date _____	Name of Inventor _____
Date _____	Name of Inventor _____