10-21-2008

Form PTO-1595 (Rev. 08/08)
OMB No. 0651-0027 (exp. 9/30/2008)

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

103530849

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):

Akira Hayashida (08/28/2008), Masaaki Ueno (08/28/2008), Masakazu Shimada (08/28/2008), Masashi Sugishita (08/28/2008),

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

2. Name and address of receiving party(ies)

Name: HITACHI KOKUSAI ELECTRIC INC.
Internal Address:
Street Address:
14-1, Sotokanda 4-chome,
Chiyoda-ku
City: Tokyo
State:
Country: JAPAN Zip: 101-8980
Additional name(s) & address(es) attached? ☒ Yes ☐ No

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

Execution Date(s): in parentheses after inventor name

☐ Assignment ☐ Merger ☐ Change of Name
☐ Security Agreement ☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☒ Other **Request to correct the second inventor's first name to an Assignment document previously recorded at Reel 021591 Frame 0555**

4. Application or patent number(s): ☐ This document is being filed together with a new application.

A. Patent Application No.(s)
12/213,824

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: RADER, FISHMAN & GRAUER PLLC
Internal Address: Atty. Dkt.: KKI-0117
Street Address: 1233 20th Street, N.W.
Suite 501
City: Washington
State: DC Zip: 20036
Phone Number: (202) 955-3750
Fax Number: (202) 955-3751
Email Address:

6. Total number of applications and patents involved: 1

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

☐ 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 18-0013
Authorized User Name Toshikatsu Imaizumi

9. Signature:

Signature

October 20, 2008
Date

Toshikatsu Imaizumi - 61,648
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 10

RECORDATION FORM COVER SHEET (PTO-1595)
(supplemental sheet)

Additional Conveying Party(ies)/Execution Date(s) (1. Continued):

Toshimitsu Miyata (08/29/2008), Kimio Kitamura (08/18/2008), Kenji Tanaka (08/18/2008), and Jyunichi Nishihara (08/22/2008)

Additional Assignees (2. Continued):

Assignee Name: TEITOKUSHA CO., LTD.
Internal Address:
Street Address: 1-5-32, Shigita, Joto-ku, Osaka-shi

City: Osaka State: City: Osaka State: City: Osaka

Assignee Name:
Internal Address:
Street Address:

City: State: Country: Zip:

Assignee Name:
Internal Address:
Street Address:

City: State: Country: Zip:

Additional Applications and/or Patents (4. Continued):

Additional Patent Application Numbers 4A. Continued:	Additional Patent Numbers 4B. Continued:

Additional numbers attached? ☐ Yes ☒ No

SEP 1[illegible] 2008

9-19-06

Form **PTO-1595** (Rev. 08/08)
OMB No. 0651-0027 (exp. 9/30/2008)

PARTMENT OF COMMERCE
Patent and Trademark Office

09-24-2008

103526346

RECORDAT

PAT

To the Director of the U.S. Patent and Trademar Offi ... ew address(es) below.

1. Name of conveying party(ies):

Akira Hayashida (08/28/2008), Masaak Ueno (08/28/2008), Masakazu Shimada (08/28/2008), Masashi Sugishita (08/28/2008),

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

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Internal Address:

Street Address:

14-1, Sotokanda 4-chome,
Chiyoda-ku

City: Tokyo

State:

Country: JAPAN Zip: 101-8980

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

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Execution Date(s): In parentheses after inventor name

☒ Assignment ☐ Merger ☐ Change of Name

☐ Security Agreement ☐ Joint Research Agreement

☐ Government Interest Assignment

☐ Executive Order 9424, Confirmatory License

☐ Other

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12/213,824

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: RADER, FISHMAN & GRAUER PLLC

Internal Address: Atty. Dkt.: KKI-0117

Street Address: 1233 20th Street, N.W.
Suite 501

City: Washington

State: DC Zip: 20036

Phone Number: (202) 955-3750

Fax Number: (202) 955-3751

Email Address:

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 18-0013
Authorized User Name Toshikatsu Imaizumi

9. Signature:

Signature

September 19, 2008
Date

Toshikatsu Imaizumi - 61,648
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents: 6

09/23/2008 DBYRNE 00000055 180013 12213824

01 FC:8021 40.00 DA

Docket Number: KKI-0117

ASSIGNMENT

WHEREAS, I, as a below named inventor, residing at the address stated next to my name, am a sole inventor (if only one name is listed below) or a joint inventor (if plural names are listed below) of certain new and useful improvements in

HEATING APPARATUS, SUBSTRATE PROCESSING APPARATUS EMPLOYING THE SAME, METHOD OF MANUFACTURING SEMICONDUCTOR DEVICES, AND INSULATOR

for which application for Letters Patent of the United States of America was executed by me on the date indicated next to my name and address;

AND WHEREAS, **HITACHI KOKUSAI ELECTRIC INC.**, a Japanese corporation with offices at **14-1, Sotokanda 4-chome, Chiyoda-ku, Tokyo 101-8980 JAPAN**, and **TEITOKUSHA CO., LTD.** a Japanese corporation with offices at **1-5-32, Shigita, Joto-ku, Osaka-shi, Osaka 536-0015 JAPAN** (hereinafter referenced as ASSIGNEES) is desirous of acquiring all interest in, to and under said invention, said application disclosing the invention and in, to and under any Letters Patent or similar legal protection which may be granted therefor in the United States and in any and all foreign countries;

NOW THEREFORE, in consideration of the sum of Ten Dollar ($10.00), and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, as a sole or joint inventor as indicated below, by these presents do hereby assign, sell and transfer unto the said ASSIGNEES, its successors, assigns, and legal representatives, the entire right, title and interest in the said invention, said application, including any divisions and continuations thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any all priority rights and/or convention rights under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and to any other benefits accruing or to accrue to me with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, and I hereby authorize and request the Commissioner of Patents to issue the said United States Letters Patent to said ASSIGNEES, as the assignee of the whole right, title and interest thereto;

And I further agree to execute all necessary or desirable and lawful future documents, including assignments in favor of ASSIGNEES or its designee, as ASSIGNEES or its successors, assigns and legal representatives may from time-to-time present to me and without further remuneration, in order to perfect title in said invention, modifications, and improvements in said invention, applications and Letters Patent of the United States and countries foreign thereto;

And I further agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid invention, as the ASSIGNEE thereof shall hereafter require and prepare at its own expense;

And I further agree that ASSIGNEES will, upon its request, be provided promptly with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to me and will testify as to the same in any interference or litigation related thereto;

And I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment and sale.

And I hereby authorize and request my attorney(s) of record in this application to insert the serial number and filing date of this application in the spaces that follow:

Serial Number: **12/213,824**, Filing Date: **06/25/2008**.

This assignment executed on the dates indicated below.

Akira HAYASHIDA Akira Hayashida Aug. 28, 2008
Signature Date

Masaaki UENO Masaaki Ueno Aug. 28, 2008
Signature Date

Masakazu SHIMADA M. Shimada Aug. 28, 2008
Signature Date

Masashi SUGISHITA Masashi Sugishita Aug 28, 2008
Signature Date

Toshimitsu MIYATA Toshimitsu Miyata Aug. 29, 2008
Signature Date

Kimio KITAMURA
Signature Date

in said invention, applications and Letters Patent of the United States and countries foreign thereto;

And I further agree to properly execute and deliver and without further remuneration, such necessary or desirable and lawful papers for application for foreign patents, for filing subdivisions of said application for patent, and or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid invention, as the ASSIGNEE thereof shall hereafter require and prepare at its own expense;

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This assignment executed on the dates indicated below.

Akira HAYASHIDA ____________________
Signature Date

Masaaki UENO ____________________
Signature Date

Masakazu SHIMADA ____________________
Signature Date

Masashi SUGISHITA ____________________
Signature Date

Toshimitsu MIYATA ____________________
Signature Date

Kimio KITAMURA 北村公男 August 18, 2008
Signature Date

Attorney Docket No. KKI-0117

Kenji TANAKA 田中健司 August 18, 2008
Signature Date

Jyunichi NISHIHARA 西原 淳一 August. 22. 2008
Signature Date