

RECORDED
8-30-99

11-22-1999



ET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark OfficeTab settings ☐ ☐ ☐ ☐

101169729

To the Honorable Commissioner of Patents and Trademarks

original documents or copy thereof.

1. Name of conveying party(ies):

- (1) Michio OHKUBO
- (2) Nariaki IKEDA
- (3) Akihiko KASUKAWA

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

3. Nature of conveyance:

☐ Assignment☐ Merger☐ Security Agreement☐ Change of Name

Request to correct third inventor's name

☒ Other previously recorded on Reel 9893 and Frame 0970.Execution Date: 11/21/95 (1), 4/8/1999 both
2 & 3

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

Name: FURUKAWA ELECTRIC CO., LTD

Internal Address: _____

Street Address: 6-1, Marunouchi 2-chome

Chiyoda-ku

City: Tokyo

State: _____

ZIP: _____

COUNTRY : JAPAN

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

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

11/25/95 (1)

If this document is being filed together with a new application, the execution date of the application is: 4/8/1999 2 & 3

A. Patent Application No.(s)

SERIAL NO: 08/566, 188

B. Patent No.(s)

Attorney's Docket No.: SOH 13.107

Additional numbers attached? ☐ Yes ☒ No

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

Name: HELFGOTT & KARAS, P.C.

Internal Address: Empire State Building
60th Floor

Street Address: 350 5th Avenue

City: New York State: N.Y. ZIP: 10118

Tel. No.: (212) 643-5000

6. Total number of applications and patents involved:

7. Total fee (37 CFR 3.41).....\$40.00

☒ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

08-1634

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

DO NOT USE THIS SPACE

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.

Aaron B. Karas

Name of Person Signing

Signature

8/26/99

Date

Reg. No.: 18,923

Total number of pages including cover sheet, attachments, and document: Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

09/07/1999 DNGUYEN 00000316 08566188

01 FC:581

40.00 DP

Any fee due with this paper, not fully covered by an enclosed check, may be charged on Deposit Acct. No. 08-1634

PATENT
REEL: 010243 FRAME: 0274

04-26-1999



101018993

CORDATION FORM COVER SHEET PATENTS ONLY

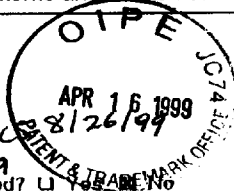
U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

D/\$

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

1. Name of conveying party(ies):

- (1) Michio OHKUBO
(2) Nariaki IKEDA
(3) Akihiko KASUKAWA
Kasukawa

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

2. Name and address of receiving party(ies)

Name: FURUKAWA ELECTRIC CO., LTD.

Internal Address: _____

Street Address: 6-1, Marunouchi 2-chome,
Chiyoda-ku

City: Tokyo State: Japan ZIP: _____

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

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name

☒ Other Assignment by (1) recorded previously on
Reel/Frame: 7819/0817Execution Date: (1) 11/21/1995
(2) & (3) 4/8/1999

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: _____

A. Patent Application No.(s)

B. Patent No.(s)

5,814,843

Additional numbers attached? ☐ Yes ☒ No

DOCKET NO.: SOH 13.107

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

Name: HELFGOTT & KARAS, P.C.

Internal Address: EMPIRE STATE BUILDING

60th FLOOR

04/23/1999 JSHADAZZ 00000085 581443

01 FC:581

40.00 DP

Street Address: 350 5th Avenue

City: New York State: NY ZIP: 10118

Tel. No.: (212)643-5000

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

☒ Enclosed☒ Authorized to be charged to deposit account

8. Deposit account number:

08-1634

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

DO NOT USE THIS SPACE

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.

Samson Helfgott

Name of Person Signing

Signature

April 16, 1999

Date

Reg. No.: 23,072

Total number of pages including cover sheet, attachments, and document: 2Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

Filed by Express Mail

(Receipt No. EM366872219US)

on April 16, 1999

pursuant to 37 C.F.R. 1.10

by [Signature]

Any fee due with this paper, not fully covered by an enclosed check, may be charged on Deposit Acct. No. 08-1634

PATENT

REEL: 010243 FRAME: 0275

ASSIGNMENT

Docket No. SOH 13.107

WHEREAS, the below named inventor, ASSIGNOR, has made a certain new and useful invention in :
HETEROJUNCTION BIPOLAR TRANSISTOR HAVING A GRADED-COMPOSITION
BASE REGION
 for which

(check one) ☒ an application is being filed concurrently herewith,
☐ an application for a Patent of the United States was filed on _____
☐ and given Application Serial No. _____

and WHEREAS, The Furukawa Electric Co., Ltd.
 having a place of business at 6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo, Japan
 _____, ASSIGNEE

is desirous of obtaining the entire right, title and interest in, to and under the said invention and the said application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, the said ASSIGNOR, has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventor's certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof.

ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidences or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR covenants and agrees that he has full right to convey the entire interest herein assigned, and has not executed, and will not execute, any agreement in conflict herewith.

AND ASSIGNOR further covenants and agrees that he will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful claims, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.

Full name of sole or first inventor: MICHIO OHKUBO
 Inventor's signature M. Ohkubo Date 21/11/1995
 Residence Kanagawa, Japan Citizenship Japanese
 Post Office Address 2-19-7, Nishitomi, Fujisawa-shi, Kanagawa 251, Japan

Full name of second joint inventor, if any _____
 Second inventor's signature _____ Date _____
 Residence _____ Citizenship _____
 Post Office Address _____

Full name of third joint inventor, if any _____
 Third inventor's signature _____ Date _____
 Residence _____ Citizenship _____
 Post Office Address _____

WHEREAS, the below named inventor, ASSIGNOR, has made a certain new and useful invention in:
HETEROJUNCTION BIPOLAR TRANSISTOR HAVING A GRADED-COMPOSITION BASE REGION

for which

(check one) ☐ an application is being filed concurrently herewith,

☒ an application for a Patent of the United States was filed on December 1, 1995
 and given Application Serial No. 08/566,188 and issued as Patent Number 5,814,843 on
 September 29, 1998.

and WHEREAS, FURUKAWA ELECTRIC CO., LTD.

having a place of business at 6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo, Japan ASSIGNEE is desirous of
 obtaining the entire right, title and interest in, to and under the said invention and the said application.

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good
 and valuable consideration, the receipt of which is hereby acknowledged, the said ASSIGNOR has sold, assigned,
 transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto the said
 ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in, to and under
 the said invention, and the said United States application and all divisions, renewals and continuations thereof,
 and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and
 all applications for industrial property protection, including, without limitation, all applications for patents, utility
 models, and designs which may hereafter be filed for said invention in any country or countries foreign to the
 United States, together with the right to file such applications and the right to claim for the same the priority
 rights derived from said United States application under the Patent Laws of the United States, the International
 Convention for the Protection of Industrial Property, or any other international agreement or the domestic laws of
 the country in which any such application is filed, as may be applicable; and all forms of industrial property
 protection, including, without limitation, patents, utility models, inventor's certificates and designs which may be
 granted for said invention in any country or countries foreign to the United States and all extensions, renewals
 and reissues thereof;

ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks of the United States,
 and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other
 evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said
 ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument;
 and

ASSIGNOR covenants and agrees that he has full right to convey the entire interest herein assigned, and
 has not executed, and will not execute, any agreement in conflict herewith; and

ASSIGNOR further covenants and agrees that he will communicate to the said ASSIGNEE, its successors,
 legal representatives and assigns, any facts known respecting said invention, and testify in any legal proceeding,
 sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths,
 and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns,
 to obtain and enforce proper protection for said invention in all countries.

Full name of sole or first inventor MICHIO OHKUBO
 Residence Kanagawa, Japan Citizenship Japan
 Post Office Address 2-18-7, Nishitomi, Fujisawa, Kanagawa 251, Japan

Full name of second joint inventor, if any NARIAKI IKEDA
 Second Inventor's Signature Nariaki Ikeda Date April 8, 1999
 Residence Kanagawa, Japan Citizenship Japan
 Post Office Address 11-7-301, Asahi-ku, Yokohama, Kanagawa 241-0825, Japan

Full name of third joint inventor, if any AKIHIKO KASUKAWA
 Third Inventor's Signature Akihiro Kasukawa Date April 8, 1999
 Residence Tokyo, Japan Citizenship Japan
 Post Office Address 3-15-8, Minami-Senju, Chitaku, Tokyo 145-0083, Japan