

## RECORDATION FORM COVER SHEET PATENTS ONLY

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)**

Toshiaki Ono  
Shigeru Umeno  
Wataru Sugimura  
Masataka Hourai

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

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

Name: Sumco Corporation

Internal Address: \_\_\_\_\_

Street Address: 2-1, Shibaura 1-chome

City: Minato-ku

State: Tokyo

Country: Japan Zip: \_\_\_\_\_

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

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

Execution Date(s) February 16, 2007

- Assignment  Merger  
 Security Agreement  Change of Name  
 Joint Research Agreement  
 Government Interest Assignment  
 Executive Order 9424, Confirmatory License  
 Other \_\_\_\_\_

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

This document is being filed together with a new application.

A. Patent Application No.(s)  
11/708,771

B. Patent No.(s)

Additional numbers attached?  Yes  No

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

Name: Anton E. Skaugset

Internal Address: Kolisch Hartwell, P.C.

Street Address: 520 S.W. Yamhill Street, Suite 200

City: Portland

State: Oregon Zip: 97204

Phone Number: (503) 224-6655

Fax Number: (503) 295-6679

Email Address: anton@khpatent.com

**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 \_\_\_\_\_

Authorized User Name \_\_\_\_\_

**9. Signature:**

Anton E. Skaugset  
Signature

May 25, 2007

Date

Anton E. Skaugset

Name of Person Signing

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

5

03-13-2007



103381920

COVER SHEET  
ONLY

To the Director of the U.S. Patent and Trademark Office, Please record the attached documents or the new address(es) below.

2-20-07

1. Name of conveying party(ies)

Toshiaki Ono  
Shigeru Uméno  
Wataru Sugimura  
Masataka Hourai

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

2. Name and address of receiving party(ies)

Name: Sumco Corporation

Internal Address: \_\_\_\_\_

Street Address: 2-1, Shibaura 1-chome

City: Minato-ku

State: Tokyo

Country: Japan

Zip: \_\_\_\_\_

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

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

Execution Date(s) February 16, 2007

- Assignment  Merger
- Security Agreement  Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other \_\_\_\_\_

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

11/708771

B. Patent No.(s)

02/ 3/2007 TNGUYEH2 00000012 11708771

06 C:8021

(40.00 DP)

Additional numbers attached?  Yes  No

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

Name: Anton E. Skaugset

Internal Address: Kolisch Hartwell, P.C.

Street Address: 520 S.W. Yamhill Street, Suite 200

City: Portland

State: Oregon Zip: 97204

Phone Number: (503) 224-6655

Fax Number: (503) 295-6679

Email Address: \_\_\_\_\_

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40

- 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 \_\_\_\_\_  
Authorized User Name \_\_\_\_\_

9. Signature:

Anton E. Skaugset  
Signature

February 20, 2007

Date

Anton E. Skaugset

Name of Person Signing

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

5

ASSIGNMENT

WHEREAS, I/WE , **(1) Toshiaki ONO; (2) Shigeru UMENO; (3) Wataru SUGIMURA and (4) Masataka HOURAI** Of **c/o SUMCO CORPORATION, 2-1, Shibaura 1-chome, Minato-ku, Tokyo, Japan** respectively, have invented certain improvements in

**SILICON SINGLE CRYSTAL WAFER FOR IGBT AND METHOD FORMANUFACTURING SILICON SINGLE CRYSTAL WAFER FOR IGBT**

, for which we have executed an application for Letters Patent of the United States on the date we executed this Assignment as hereinafter set forth.

WHEREAS, **SUMCO CORPORATION**, a Japanese corporation, having its principal place of business in **Tokyo, Japan**, is desirous of acquiring an interest therein:

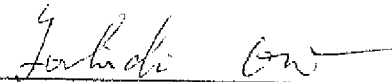
NOW, THEREFORE, for other good and valuable consideration, we the said **(1) Toshiaki ONO; (2) Shigeru UMENO; (3) Wataru SUGIMURA and (4) Masataka HOURAI**, have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto the said **SUMCO CORPORATION**, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions in any and all foreign countries and in and to any and all divisions, reissues, continuations and extensions thereof.

We hereby authorize and request the Patent Office officials in the United States and any and all foreign countries to issue any and all of said Letters Patent, when granted, to the said **SUMCO CORPORATION**, as the assignee of our entire right, title and

interest in and to the same, for the sole use of the said **SUMCO CORPORATION**, its successors and assigns.

Further, we agree that we will communicate to the said **SUMCO CORPORATION**, or its representatives any facts known to us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitution, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to the said **SUMCO CORPORATION**, make all rightful oaths and generally do everything possible to aid the said **SUMCO CORPORATION**, its successors and assigns, to obtain and enforce proper protection for said invention in the United States and in any and all foreign countries.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 16th day of February, 2007.

  
\_\_\_\_\_  
FIRST INVENTOR      **Toshiaki ONO**

Witness:

\_\_\_\_\_  
(Name)  
  
\_\_\_\_\_  
(Address)  
  
\_\_\_\_\_  
(City, Country)

Shigeru Umeno  
SECOND INVENTOR Shigeru UMENO

Witness:

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Address)

\_\_\_\_\_  
(City, Country)

Wataru Sugimura  
THIRD INVENTOR Wataru SUGIMURA

Witness:

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Address)

\_\_\_\_\_  
(City, Country)

Masataka Hourai  
FOURTH INVENTOR Masataka HOURAI

Witness:

\_\_\_\_\_  
(Name)

\_\_\_\_\_  
(Address)

\_\_\_\_\_  
(City, Country)