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To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Sataro YAMAGUCHI

8-29-03

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

KABUSHIKI KAISHA Y.Y.L.  
Villa Calme 105,  
4-21-8 Tsurumaki,  
Setagaya-ku, Tokyo, JapanAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

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

Execution Date: July 1, 2003

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

## 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)  
10/430,284

10430284

B. Patent No.(s)  
NOT YET ASSIGNEDAdditional numbers attached? ☐ Yes ☒ No

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

SUGHRUE MION, PLLC

WASHINGTON OFFICE

23373

CUSTOMER NUMBER

## 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 No. 19-4880.

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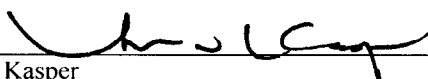
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## 9. Statement and signature.

*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.*  
Alan J. Kasper

Reg. No. 25,426

August 29, 2003

Date

Total number of pages including cover sheet, attachments, and documents: 2

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PATENT  
REEL: 014449 FRAME: 0546

## Assignment

Whereas, I/We, Sataro YAMAGUCHI of  
Takakuradai Sky mansion 501, 1-5-2 Takakuradai, Kasugai-shi, Aichi, Japan  
hereinafter called assignor(s), have invented certain improvements in  
Cutting Method and Apparatus for Ingot, Wafer, and Manufacturing Method of Solar Cell  
and executed an application for Letters Patent of the United States of America therefor on  
July 1, 2003; and

Whereas, Kabushiki Kaisha Y.Y.L.  
Villa Calme 105, 4-21-8 Tsurumaki, Setagaya-ku, Tokyo,  
Japan

(assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including the right to claim priority under 35 U.S.C. §119, and I/we request the Director – U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and I/we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States application when called upon to do so by the assignee.

I/We hereby authorize and request our attorneys SUGHRUE MION, PLLC of 2100 Pennsylvania Avenue, NW, Washington, DC 20037-3213 to insert here in parentheses (Application number 10/430,284 and Confirmation number \_\_\_\_\_, filed May 7, 2003) the filing date and application number of said application when known.

Date: July 1, 2003

Sataro Yamaguchi  
s/ Sataro YAMAGUCHI

Date: \_\_\_\_\_

s/

Date: \_\_\_\_\_

s/

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)