

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Shigeru UMENO</td> <td>11/10/2009</td> </tr> <tr> <td>Keiichiro HIRAKI</td> <td>11/16/2009</td> </tr> <tr> <td>Hiroaki TAGUCHI</td> <td>11/20/2009</td> </tr> </tbody> </table>		Name	Execution Date	Shigeru UMENO	11/10/2009	Keiichiro HIRAKI	11/16/2009	Hiroaki TAGUCHI	11/20/2009				
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CORRESPONDENCE DATA													
<p>Fax Number: (703)716-1180</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 703 716 1191</p> <p>Email: gbpatent@gbpatent.com</p> <p>Correspondent Name: Greenblum & Bernstein, P.L.C.</p> <p>Address Line 1: 1950 Roland Clarke Place</p> <p>Address Line 4: Reston, VIRGINIA 20191</p>													
ATTORNEY DOCKET NUMBER:	P37503												
NAME OF SUBMITTER:	Sean C. Myers-Payne												
<p>Total Attachments: 2</p> <p>source=P37503_Assignment#page1.tif</p>													

OP \$40.00 12604627

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PATENT
REEL: 023613 FRAME: 0756

ASSIGNMENT

WHEREAS, **Shigeru UMENO**, a citizen of Japan, whose post office address is c/o SUMCO CORPORATION, 2-1 Shibaura, 1-chome, Minato-ku, Tokyo 105-8634, Japan, **Keiichiro HIRAKI**, a citizen of Japan, whose post office address is c/o SUMCO CORPORATION, 2-1 Shibaura, 1-chome, Minato-ku, Tokyo 105-8634, Japan and **Hiroaki TAGUCHI**, a citizen of Japan, whose post office address is c/o SUMCO CORPORATION, 2-1 Shibaura, 1-chome, Minato-ku, Tokyo 105-8634, Japan, hereinafter referred to as the ASSIGNOR, has invented a certain improvement relating to

METHOD OF MANUFACTURING SILICON SINGLE CRYSTAL, SILICON SINGLE CRYSTAL INGOT, AND SILICON WAFER

for which he has executed, on the same date as this assignment, an application for Letters Patent for the United States to be filed in the United States Patent and Trademark Office.

If this Assignment is filed after the filing date of the above-identified application, the undersigned hereby authorize and request any one of the attorneys of record in this application including Neil F. Greenblum, Reg. No. 28,394, Bruce H. Bernstein, Reg. No. 29,027, Arnold Turk, Reg. No. 33,094, James L. Rowland, Reg. No. 32,674, Stephen M. Roylance, Reg. No. 31,296, Leslie J. Paperner, Reg. No. 33,329, William Pieprz, Reg. No. 33,630, Robert W. Mueller, Reg. No. 35,043, William E. Lyddane, Reg. No. 41,568 and William S. Boshnick, Reg. No. 44,550, of the firm Greenblum & Bernstein, P.L.C., whose address is 1950 Roland Clarke Place, Reston, Virginia 20191, to insert here in parenthesis (Application No. 12/604,627, filed October 23, 2009) the filing date and application number of said application when known.

AND WHEREAS, SUMCO CORPORATION, a corporation organized and existing under the laws of Japan, whose post-office address is 2-1 Shibaura, 1-chome, Minato-ku, Tokyo 105-8634, Japan, hereinafter known as the ASSIGNEE, is desirous of acquiring the entire right, title and interest for the United States in and to said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, reexaminations, and prolongations thereof.

NOW, THIS WITNESSETH that for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt whereof is hereby acknowledged, said ASSIGNOR hereby assigns, sells and transfers to said ASSIGNEE, its assigns and legal representatives, the entire and exclusive right, title and interest in and to said invention and application, for the United States including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted therefor and all rights to sue for past and future infringement thereunder, said ASSIGNEE and its assigns and legal representatives to have, hold, exercise and enjoy the said invention and application, including any and all divisions and continuations thereof, and any and all Letters Patent which may be granted thereon, including any and all renewals, reissues, reexaminations, and prolongations thereof, with all the rights, powers, privileges, and advantages in any ways arising from or pertaining thereto, for and during the term or terms of any and all such

Letters Patent when granted, including any and all renewals, reissues, reexaminations, and prolongations thereof, for the use and benefit of said ASSIGNEE and its assigns and legal representatives in as ample and beneficial a manner to all intents and purposes as the said ASSIGNOR might or could have held and enjoyed the same, if this assignment had not been made.

AND said ASSIGNOR hereby agrees to execute all papers necessary to file applications in the United States for said invention and to assign the same to said ASSIGNEE, or any assignee acquiring title to said invention, and to execute any other papers that may be needed in connection with filing said application and securing Letters Patent thereon.

AND said ASSIGNOR authorizes and requests the Commissioner of Patents to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said ASSIGNEE, its assigns and legal representatives, in accordance herewith.

IN TESTIMONY WHEREOF, this assignment is executed by said ASSIGNOR(S), on the respective date(s) indicated below.

Shigeru Umeno
Shigeru UMENO

Nov. 10, 2009
(DATE)

Keiichiro Hiraki
Keiichiro HIRAKI

Nov. 16, 2009
(DATE)

Hiroaki Taguchi
Hiroaki TAGUCHI

Nov. 20, 2009
(DATE)