PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HARUYUKI ISHIDA	08/27/2014
TETSUYA IMURA	08/21/2014
YASUMASA AIMOTO	08/21/2014

RECEIVING PARTY DATA

Name:	TOKUYAMA CORPORATION	
Street Address:	1-1, MIKAGE-SHO, SHUNAN-SHI	
City:	YAMAGUCHI	
State/Country:	JAPAN	
Postal Code:	745-8648	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14383577

CORRESPONDENCE DATA

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Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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ATTORNEY DOCKET NUMBER:	919.0041	
NAME OF SUBMITTER:	WARREN ZITLAU	
SIGNATURE:	/warren zitlau/	
DATE SIGNED:	09/08/2014	

Total Attachments: 2

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> **PATENT** REEL: 033685 FRAME: 0444

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ASSIGNMENT OF PATENT APPLICATION

FOR GOOD AND VALUABLE CONSIDERATION,

POLYCRYSTALLINE SILICON ROD

I, the undersigned hereby agrees to assign for good and valuable consideration, receipt of which is hereby expressly acknowledged, and do hereby sell, assign and transfer unto

Tokuyama Corporation, 1-1, Mikage-cho, Shunan-shi, Yamaguchi 745-8648, Japan

a corporation organized under the laws of IAPAN, and its successors, assigns and legal representatives, the entire right, title and interest, for all countries in and to certain inventions relating to

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described in an application for Letters Patent of the United States, identified as Attorney Docket No.	919,0002, at Cahn &
Samuels, LLP, 1109,17th Street N.W., Suite 401, Washington, DC 20036-4650 and filed ont A Social Street N.W., Suite 401, Washington, DC 20036-4650 and filed ont A Social Street N.W., Suite 401, Washington, DC 20036-4650 and filed ont A Social Street N.W., Suite 401, Washington, DC 20036-4650 and filed ont A Social Street N.W., Suite 401, Washington, DC 20036-4650 and filed ont A Social Street N.W., Suite 401, Washington, DC 20036-4650 and filed ont A Social Street N.W., Suite 401, Washington, DC 20036-4650 and filed ont A Social Street N.W., Suite 401, Washington, DC 20036-4650 and filed ont A Social Street N.W., Suite 401, Washington, DC 20036-4650 and filed ont A Social Street N.W., Suite 401, Washington, DC 20036-4650 and filed ont A Social Street N.W., Suite 401, Washington, DC 20036-4650 and filed ont A Social Street N.W., Suite 401, Washington, DC 20036-4650 and filed ont A Social Street N.W., Suite 401, Washington, DC 20036-4650 and filed ont A Social Street N.W., Suite 401, Washington, DC 20036-4650 and filed ont A Social Street N.W., Suite 401, Washington, DC 20036-4650 and filed ont A Social Street N.W., Suite 401, Washington, DC 20036-4650 and filed ont A Social Street N.W., Suite 401, Washington, DC 20036-4650 and filed ont A Social Street N.W., Suite 401, Washington, DC 20036-4650 and filed ont A Social Street N.W., Suite 401, Washington, DC 20036-4650 and filed ont A Social Street N.W., Suite 401, Washington, DC 20036-4650 and filed ont A Social Street N.W., Suite 401, Washington, DC 20036-4650 and filed ont A Social Street N.W., Suite 401, Washington, DC 20036-4650 and filed ont A Social Street N.W., Suite 401, Washington, DC 20036-4650 and filed ont A Social Street N.W., Suite 401, Washington, DC 20036-4650 and filed ont A Social Street N.W., Suite 401, Washington, DC 20036-4650 and filed ont A Social Street N.W., Suite 401, Washington, DC 20036-4650 and filed ont A Social Street N.W., Suite 401, Washington, DC 20036-4650 and filed Ont A Social Street N.W., Suite 401, Washington, DC 20036-4650 a	as Application
Samuels, LLP, 1100,17th Street N.W., Suite 401, Washington, DC 20036-4650 and filed ont Social No. 14134 57 and the invention(s) and improvement(s) set forth therein, and any	and all continuations
continuations-in-part, divisionals, and renewals of and substitutes for said application for said Leners Pat	ient and all the right
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continuations-in-part, divisionals, and renewals of and substitutes for said application for said Letters Patent, and all the rights and privileges under any and all Letters Patent that may be granted therefor in any country, and any reissues, or reexaminations, or extensions of said Letters Patent. I request that any and all Letters Patent for said inventions be issued to said Assignee, its successors, assigns and legal representatives, or to such nominees as it may designate.

I agree that, when requested, I will, without charge to said Assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in said Assignee, its successors, assigns and legal representatives or nominees.

I authorize and empower the said Assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from me.

I hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of the said Assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International convention which may henceforth be substituted for it.

I hereby authorize Warren A. Zitlau, anorney for Assignee, to insert the filing date and Serial number into the first paragraph of this assignment, after the application for Letters Patent has been filed, and the U.S. Patent Office has assigned such application a Serial Number.

I covenant with said Assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that I have full right to convey the same as herein expressed.

IN WITNESS WHEREOF, I have hereunto signed my name on the day and year set forth below.

Novuyuki Ishida 27/8/2014
Inventor's Signature DATE

Haruveki ISHIDA Inventor's Printed Name

Tetsuya Umwa	21/8/2014
Inventor's Signature	DATE
Tetauya IMURA Inventor's Printed Name	
Youmada ainate	21 / 8 / 2014
Inventor's Signature	DATE
Yasumasa AIMOTO Inventor's Printed Name	

RECORDED: 09/08/2014

PATENT REEL: 033685 FRAME: 0446