

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5173790

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
PARTICULATE SOLID RESEARCH INC.	06/14/2013
RECEIVING PARTY DATA	
Name:	HEMLOCK SEMICONDUCTOR OPERATIONS LLC
Street Address:	12334 GEDDES ROAD
City:	HEMLOCK
State/Country:	MICHIGAN
Postal Code:	48626
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16151520
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NAME OF SUBMITTER:	KRISTA A. KOSTIEW
SIGNATURE:	/Krista A. Kostiew/
DATE SIGNED:	10/04/2018
Total Attachments: 2	
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Case No. DC11410PCT1/065610.00031

ASSIGNMENT

For good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, we the undersigned owner (assignor),

ASSIGNORS: Particulate Solid Research Inc.
4201 W. 36th Street, Suite 200
Chicago, IL 60632

Hereby sells, assigned and transfers to

ASSIGNEE: Hemlock Semiconductor Corporation
12334 Geddes Road
Hemlock, Michigan 48626

and the successors and assigns of the ASSIGNEE, the entire right, title and interest for the United States and its territorial possessions and in all foreign countries, including all rights to claim priority in and to any and all improvements which are disclosed in the invention entitled

Tapered Fluidized Bed Reactor And Process For Its Use

and which is found in PCT Application Serial No. _____ filed on _____ which claims priority to U.S. Patent Application Serial No. 61/694,449 filed on 29/AUG/2012 and 61/794,320 filed on 15/MAR/2013 and any legal equivalent thereof in a foreign country, including the right to claim priority, and, in and to, all Letters Patent to be obtained for said invention or arising from or claiming priority to any of the above identified patent applications, or any national filing, continuation, division, renewal, or substitute thereof arising from or claiming priority to any of the above identified patent applications, and as to letters patent any re-issue or re-examination thereof.

To comply with 37 C.F.R. § 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney or agent, as designated in any Power of Attorney I have executed with respect to this invention, to insert the filing dates and serial numbers of the above identified patent applications when they become known in the space above if not already provided.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;


ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and ASSIGNOR will testify as to the same in any interference, litigation or proceeding related thereto.

ASSIGNMENT

ASSIGNOR further covenants to promptly execute and deliver to ASSIGNEE or its successors or assigns any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof and to execute any divisional or continuing application or applications which may be necessary or proper to obtain full protection on the invention hereby assigned; and to execute any and all supplemental oaths and preliminary statements, should the same be necessary or desirable in the prosecution of the aforesaid applications and to carry out the purposes thereof.

IN WITNESS WHEREOF I have hereunto set my hand and affixed my seal
this 14 day of June, 2013.

Particulate Solid Research Inc.


Typed Name: Raymond A. Coco
(Authorized to sign on behalf of
Particulate Solid Research Inc.)
Title: President & CEO

This is to certify that Ray Coco has signed this document in my presence this
14 day of June, 2013.


Signature of Witness