

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
DORAI RAMPRASAD	10/25/2012
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	W. R. GRACE & CO.-CONN.
<b>Street Address:</b>	7500 GRACE DRIVE
<b>City:</b>	COLUMBIA
<b>State/Country:</b>	MARYLAND
<b>Postal Code:</b>	21044
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	61718385
<b>PCT Number:</b>	US2013066593
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<b>ATTORNEY DOCKET NUMBER:</b>	W9972-01
<b>NAME OF SUBMITTER:</b>	CHARLES A. CROSS
<b>SIGNATURE:</b>	/Charles A. Cross/
<b>DATE SIGNED:</b>	03/19/2015
<b>Total Attachments: 3</b>	
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**PROVISIONAL APPLICATION ASSIGNMENT  
TO  
W. R. GRACE & CO.-CONN.**

Inventor or Inventors:		
Dorai Ramprasad		

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, the undersigned person(s) named above, herein referred to as **UNDERSIGNED**, hereby agree(s) as follows:

(1) **UNDERSIGNED** hereby assign(s) to W. R. Grace & Co.-Conn., a corporation organized and existing under the laws of the of the State of Connecticut, its successors and assigns, herein referred to collectively as **ASSIGNEE**, the entire right, title and interest, for the United States and all foreign countries in and to **UNDERSIGNED**'s:

- (a) inventions described in the patent application entitled, **IMPROVED PROCESS AND CATALYST FOR THE PRODUCTION OF PYRIDINE AND ALKYL DERIVATIVES THEREOF**; said application being further identified as U.S. Provisional Application No. 61/718385, filed in the United States Patent and Trademark Office on **October 25, 2012** and having Docket No. W9972-01;
- (b) inventions claimed in any non-provisional:
  - (i) application, such as design, or regular utility patent application, continuing application ( e.g., in whole or in-part), divisional application, reissue or re-examined patent application, or any patent application for substitution, importation, improvement, or addition, utility model, or inventors certificates; and/or
  - (ii) patent issuing from any of the above applications of 1(b)(i), and/or any other type of patent issued in countries anywhere in the world;

wherein said application and/or patent of 1(b)(i) or (ii)

- (A) directly claims priority to the Provisional Application of (a); or
- (B) indirectly claims priority to the Provisional Application of 1(a) (e.g., any application or patent claiming priority to one or more applications or patents, that directly or indirectly claim priority to the Provisional Application of 1(a));

- (c) inventions constituting improvements or modifications to any inventions described in the Provisional Application of (a) and/or the non-provisional patent application(s) or patents of 1(b); the inventions of 1(a) (b) and (c) being collectively and individually referred to hereinafter as INVENTION(S);
- (d) applications (and patents based thereon) filed under the Patent Cooperation Treaty (PCT), and/or treaties, conventions or compacts of other regions (including e.g., European Patent, Eurasian Patent, ARIPO Patent and OAPI Patent) covering said INVENTION(S); and
- (e) rights of priority created by said application(s) or patents under provisions of international conventions or treaties.

(2) UNDERSIGNED agree(s) upon the request of ASSIGNEE to execute any and all applications for, and documents relating to, obtaining patents and the prosecution thereof for said INVENTION(S) and any continuations, re-examinations or re-issues of such applications or substitutes therefore or registrations thereof, and any specific separate assignments of any of the above required for recording in the United States Patent and Trademark Office, and any foreign patent office that ASSIGNEE may deem necessary or expedient.

(3) UNDERSIGNED agree(s) that in the event of any application based on said assigned INVENTION(S) or patent issued thereon, or any reissue or application for the reissue thereof, becoming involved in one or more legal proceedings anywhere in the world, e.g., Derivation Proceeding, Post Grant Review, Inter-Partes Review, Ex Parte Reexamination, Supplemental Examination, Third Party Post Issuance Proceedings, Transitional Business Method Post Grant Review, patent infringement litigation, and Declaratory Judgment proceeding, UNDERSIGNED will cooperate with ASSIGNEE, at ASSIGNEE'S expense, to the best of the ability of UNDERSIGNED in the matter of preparing and executing all documents, giving and producing evidence in support thereof, and generally do everything possible to aid ASSIGNEE, its (his/her) successors and assigns, to obtain and enforce proper protection for said INVENTION in the United States and its territorial possessions and in any and all foreign countries.

(4) UNDERSIGNED agree(s) to perform, upon ASSIGNEE's request, any and all affirmative acts to obtain United States and foreign patents covering said INVENTION(S) and to vest all rights therein hereby conveyed to ASSIGNEE, as fully and as entirely as the same would have been held and enjoyed by UNDERSIGNED if these assignments had not been made.

(5) UNDERSIGNED hereby authorize(s) ASSIGNEE's attorney to insert at paragraph 1, in this instrument, the filing date and Provisional Application number thereof when known.

ASSIGNMENT

Attorney Docket No. W9972-01

IN WITNESS WHEREOF, this assignment has been executed by  
UNDERSIGNED on the date opposite UNDERSIGNED's NAME.

Date 10/25/2012 Inventor Dorai Ramprasad (LS) Witness K.A. Sauter-Bray  
Dorai Ramprasad K. A. Sauter-Bray

Date \_\_\_\_\_ Inventor \_\_\_\_\_ (LS) Witness \_\_\_\_\_

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