

## 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>
RENATA DA SILVA CARDOSO	12/01/2017
JONAS ALVES FERNANDES	11/17/2017
MARCIA REGINA WASHBURGER	11/29/2017
CESAR AUGUSTO SALES BARBOSA	11/28/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	BRASKEM S.A.
<b>Street Address:</b>	RUA ETENO, 1561
<b>Internal Address:</b>	COMPLEXO PETROQUIMICO DE CAMACARI
<b>City:</b>	CAMACARI - BA
<b>State/Country:</b>	BRAZIL
<b>Postal Code:</b>	42810-000
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	15105788
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<b>ATTORNEY DOCKET NUMBER:</b>	F9373-00498
<b>NAME OF SUBMITTER:</b>	RICHARD A. PAIKOFF
<b>SIGNATURE:</b>	/Richard A. Paikoff/
<b>DATE SIGNED:</b>	12/05/2017
<b>Total Attachments: 3</b>	
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## A S S I G N M E N T

WHEREAS, the undersigned,

**Renata da Silva Cardoso**, having a principal mailing address at Rua Lemos Monteiro, no 120, 23 andar, CEP 05501-050 - São Paulo, SP, Brazil;

**Jonas Alves Fernandes**, having a principal mailing address at Rua Lemos Monteiro, no 120, 23 andar, CEP 05501-050 - São Paulo, SP, Brazil;

**Márcia Regina Washburger**, having a principal mailing address at Rua Lemos Monteiro, no 120, 23 andar, CEP 05501-050 - São Paulo, SP, Brazil; and

**Cesar Augusto Sales Barbosa**, having a principal mailing address at Rua Lemos Monteiro, no 120, 23 andar, CEP 05501-050 - São Paulo, SP, Brazil;

(hereinafter referred to as "ASSIGNORS"), are the inventors of certain inventions or improvements for **CATALYST SUPPORT AND RELATED PROCESSES**, for which U.S. Patent Application No. 15/105,788 was filed on June 17, 2016, and is based on International Patent Application No. PCT/BR2014/050048 (filed December 17, 2014) and which claims the priority of U.S. Provisional Application No. 61/917,764 (filed on December 18, 2013); and

WHEREAS, **Braskem S.A.**, a Brazilian corporation having a principal mailing address at Rua Eteno, 1561, Complexo Petroquímico de Camaçari, 42810-000, Camaçari - BA, Brazil (hereinafter referred to as "ASSIGNEE"), is desirous of acquiring the entire right, title and interest in and to the said invention or improvements and in and to said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and in any and all other countries;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby freely acknowledged and intending to be legally bound, said ASSIGNORS have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said ASSIGNEE, the entire right, title and interest in and to said inventions or improvements and said applications and any and all continuations, divisions, and renewals of and substitutes for said applications, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and its possessions and territories, in all countries, whether designated via the Patent Cooperation Treaty or otherwise, including the right to claim priority, and any reissue or reissues or extension or extensions of said Letters Patent, the same to be held and enjoyed by said ASSIGNEE, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by said ASSIGNORS had this assignment, sale and transfer not been made.

AND the undersigned ASSIGNORS hereby covenant that they have full right to convey the entire interest herein assigned, and have not executed and will not execute



any agreement in conflict herewith, and further covenant and agree, each time request is made and without undue delay, to execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said applications and said Letters Patent in said ASSIGNEE, its successors, assigns, nominees, or legal representatives, and agree to communicate to said ASSIGNEE or to its nominees all known facts respecting said inventions or improvements, said applications and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers, to execute all disclaimers and divisional, continuing, and reissue applications, to make all rightful oaths, and generally to do everything possible to aid said ASSIGNEE, its successors, assigns, nominees and legal representatives to obtain and enforce for its own benefit proper patent protection for said inventions or improvements in all countries in which ASSIGNEE, in its discretion, may choose to proceed;

AND ASSIGNORS hereby authorize and request the authorities of all selected countries to issue to said ASSIGNEE the entire right, title and interest, in and to any and all patents for said inventions or improvements, including any and all patents which may be issued and granted on or as a result of the applications aforesaid, in accordance with the terms of this assignment.

IN WITNESS WHEREOF, ASSIGNORS hereunto set their hand and seal, intending to be legally bound.

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

\_\_\_\_\_  
Renata da Silva Cardoso

Date: 11-17-2017

\_\_\_\_\_  
Jonas Alves Fernandes

Date: 11-28-2017

\_\_\_\_\_  
Márcia Regina Washburger

Date: 11-28-2017

\_\_\_\_\_  
Cesar Augusto Sales Barbosa