

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4583112

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the ZIP CODE OF ASSIGNEE SABIC GLOBAL TECHNOLOGIES B.V. FROM 4162 PX TO 4612 PX previously recorded on Reel 041028 Frame 0001. Assignor(s) hereby confirms the ZIP CODE OF ASSIGNEE SABIC GLOBAL TECHNOLOGIES B.V. IS 4612 PX.

## CONVEYING PARTY DATA

Name	Execution Date
ARNO JOHANNES MARIA OPRINS	09/14/2016
ANDREW MARK WARD	08/15/2016
EGIDIUS JACOBA MARIA SCHAERLAECKENS	10/24/2016
RAUL VELASCO PELAEZ	08/10/2016
RAVICHANDER NARAYANASWAMY	09/14/2016
VIJAYANAND RAJAGOPALAN	09/14/2016
JORIS VAN WILLIGENBURG	08/08/2016

## RECEIVING PARTY DATA

<b>Name:</b>	SABIC GLOBAL TECHNOLOGIES B.V.
<b>Street Address:</b>	PLASTICSLAAN 1
<b>City:</b>	BERGEN OP ZOOM
<b>State/Country:</b>	NETHERLANDS
<b>Postal Code:</b>	4612 PX
<b>Name:</b>	SAUDI BASIC INDUSTRIES CORPORATION
<b>Street Address:</b>	P.O. BOX 5101
<b>City:</b>	RIYADH
<b>State/Country:</b>	SAUDI ARABIA
<b>Postal Code:</b>	11422

## PROPERTY NUMBERS Total: 1

Property Type	Number
<b>Application Number:</b>	15120853

## CORRESPONDENCE DATA

Fax Number:

*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.*

Email: aoipdocket@nortonrosefulbright.com

Correspondent Name: NORTON ROSE FULBRIGHT US LLP

PATENT

<b>Address Line 1:</b>	98 SAN JACINTO BOULEVARD
<b>Address Line 2:</b>	SUITE 1100
<b>Address Line 4:</b>	AUSTIN, TEXAS 78701

<b>ATTORNEY DOCKET NUMBER:</b>	SABM.P0141US/11701505
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<b>NAME OF SUBMITTER:</b>	KIMBERLY BERRIOS
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<b>SIGNATURE:</b>	/Kimberly Berrios/
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<b>DATE SIGNED:</b>	09/07/2017
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**Total Attachments: 12**

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## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4235528

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

**CONVEYING PARTY DATA**

Name	Execution Date
ARNO JOHANNES MARIA OPRINS	09/14/2016
ANDREW MARK WARD	08/15/2016
EGIDIUS JACOBA MARIA SCHAERLAECKENS	10/24/2016
RAUL VELASCO PELAEZ	08/10/2016
RAVICHANDER NARAYANASWAMY	09/14/2016
VIJAYANAND RAJAGOPALAN	09/14/2016
JORIS VAN WILLIGENBURG	08/08/2016

**RECEIVING PARTY DATA**

<b>Name:</b>	SAUDI BASIC INDUSTRIES CORPORATION
<b>Street Address:</b>	P.O. BOX 5101
<b>City:</b>	RIYADH
<b>State/Country:</b>	SAUDI ARABIA
<b>Postal Code:</b>	11422
<b>Name:</b>	SABIC GLOBAL TECHNOLOGIES B.V.
<b>Street Address:</b>	PLASTICSLAAN 1
<b>City:</b>	PX BERGEN OP ZOOM
<b>State/Country:</b>	NETHERLANDS
<b>Postal Code:</b>	NL-4162

**PROPERTY NUMBERS Total: 1**

Property Type	Number
<b>Application Number:</b>	15120853

**CORRESPONDENCE DATA**

**Fax Number:** (704)332-1197

*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.*

**Phone:** 704-375-0057

**Email:** jbernard@slk-law.com

**Correspondent Name:** SHUMAKER, LOOP & KENDRICK, LLP

**Address Line 1:** 101 SOUTH TRYON STREET

**Address Line 2:** SUITE 2200

PATENT

**Address Line 4:** CHARLOTTE, NORTH CAROLINA 28280-0002

**ATTORNEY DOCKET NUMBER:** 60089US (3841/81US)

**NAME OF SUBMITTER:** JASON A. SMITH

**SIGNATURE:** /Jason A. Smith/

**DATE SIGNED:** 01/20/2017

**Total Attachments: 10**

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## ASSIGNMENT

We, **Arno Johannes Maria Oprins**, a Netherlands citizen and having an address of c/o SABIC Intellectual Property Group, P.O. Box 3008, NL-6160 GA, Geleen, Netherlands; **Andrew Mark Ward**, a Great Britain citizen and having an address of c/o SABIC UK Petrochemicals, P.O. Box 99, Wilton Centre, Wiltshire, TS10 4YA, Great Britain; **Egidius Jacoba Maria Schaerlaeckens**, a Netherlands citizen and having an address of c/o SABIC Intellectual Property Group, P.O. Box 3008, NL-6160 GA, Geleen, Netherlands; **Raúl Velasco Pelaez**, a Spanish citizen and having an address of c/o SABIC Intellectual Property Group, P.O. Box 3008, NL 61600 GA, Geleen, Netherlands; **Ravichander Narayanaswamy**, a Netherlands citizen and having an address of c/o SABIC Research & Technology Pvt. Ltd., Plot No. 81 to 85 Village: Chikkadunnasandra, Anekal Taluk, Off. Sarjapura, Attibele State Highway Near St. Philomena School, Karnataka, Bangalore, 562125, India; **Vijayanand Rajagopalan**, a Netherlands citizen and having an address of c/o SABIC Research & Technology Pvt. Ltd., Plot No. 81 to 85 Village: Chikkadunnasandra, Anekal Taluk, Off. Sarjapura, Attibele State Highway Near St. Philomena School, Karnataka, Bangalore, 562125, India; and **Joris Van Willigenburg**, a Netherlands citizen having an address of c/o SABIC Intellectual Property Group, P.O. Box 3008, NL-6160 GA, Geleen, Netherlands in consideration of good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, do hereby sell, assign and transfer 50% of ownership unto **Saudi Basic Industries Corporation**, a foreign corporation organized under the laws of Saudi Arabia, and having an office at P.O. Box 5101, Riyadh 11422, Saudi Arabia (JOINT ASSIGNEE), and 50% of ownership unto **SABIC Global Technologies B.V.**, a foreign corporation organized under the laws of the Netherlands, and having an office at Plasticlaan 1, NL-4162 PX, Bergen

Michael Willis; Reg. No. 53913: 4612 PX  
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Op Zoom, the Netherlands (JOINT ASSIGNEE), the entire right, title and interest, together with all rights of priority, in and to our invention for certain improvements entitled "A METHOD OF CONTROLLING THE SUPPLY AND ALLOCATION OF HYDROGEN GAS IN A HYDROGEN SYSTEM OF A REFINERY INTEGRATED WITH OLEFINS AND AROMATICS PLANTS", as described in U.S. Application No. 15/120,853, filed in the United States Patent and Trademark Office on the 23 day of August, 2016, preparatory to obtaining Letters Patent of the United States therefor and as described and/or claimed in any and all applications for Letters Patent based thereon including the formal application, divisions, continuations and reissues thereof as well as all foreign counterparts thereof together with all Letters Patent issuing on any of the aforesaid applications for Letters Patent, the same to be held and enjoyed by ASSIGNEE, its successors, assigns or other legal representatives, to the full ends of the terms of all said Letters Patent therefor which may be granted.

AND WE HEREBY AUTHORIZE ASSIGNEE to make applications for and to receive Letters Patent for said invention in any foreign countries in its own name, or in our names, at its election.

AND WE HEREBY COVENANT AND AGREE that we will execute or procure any further necessary assurance of title to said invention and any Letters Patent which may issue therefor and that we will, at any time, upon the request and at the expense of ASSIGNEE deliver any testimony in any legal proceedings and execute all papers that may be necessary or desirable to perfect the title to said invention or any Letters Patent which may be granted therefor in ASSIGNEE, its successors, assigns, or other legal representatives, and that we will, at any time, upon the request and at the expense of ASSIGNEE execute the formal application, continuations,

divisions, reissues, or any other additional applications for Letters Patent for said invention or any part or parts thereof, all of which applications and any Letters Patent issuing thereon are hereby assigned to ASSIGNEE, and will make all rightful oaths, and do all lawful acts requisite for procuring the same therein, without further compensation, but at the expense of ASSIGNEE, its successors, assigns or other legal representatives.

AND WE HEREBY AUTHORIZE AND REQUEST the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States for said invention, resulting from any of the aforesaid applications to said **Saudi Basic Industries Corporation** and **SABIC Global Technologies B.V.**, as 50%/50% JOINT ASSIGNEES.

WITNESS OUR hand and seal on the day listed below:

14 September 2016

Date



Arno Johannes Maria Oprins

We, \_\_\_\_\_ and \_\_\_\_\_, the undersigned witnesses hereby declare that we were personally present and did see the signatory, **Arno Johannes Maria Oprins** who is personally known to us, duly sign and execute this Assignment.

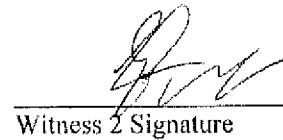
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Witness 1 Signature

M. Albers

Witness 1 Printed Name

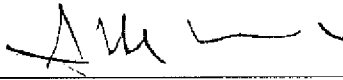
Date

  
Witness 2 Signature

E. Scheerder - Postjens

Witness 2 Printed Name

15.8.2016  
Date


  
Andrew Mark Ward

We, \_\_\_\_\_ and \_\_\_\_\_, the undersigned  
witnesses hereby declare that we were personally present and did see the signatory,  
**Andrew Mark Ward** who is personally known to us, duly sign and execute this Assignment.

15/8/16  
Date

A. P. Davies.  
Witness 1 Signature  
A. P. DAVIES  
Witness 1 Printed Name

15/8/16  
Date

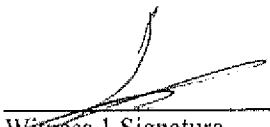
  
Witness 2 Signature  
I Robson  
Witness 2 Printed Name

24-10-2016  
Date

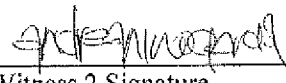
  
Egidius Jacoba Maria Schaerlaeckens

We, Safa Farajzadeh Bibalan and Andrea Nino-Garcia, the undersigned witnesses hereby declare that we were personally present and did see the signatory, **Egidius Jacoba Maria Schaerlaeckens** who is personally known to us, duly sign and execute this Assignment.

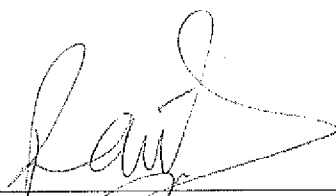
24-10-2016  
Date

  
Witness 1 Signature  
Safa Farajzadeh Bibalan  
Witness 1 Printed Name

24<sup>th</sup>-10-2016  
Date

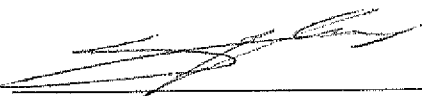
  
Witness 2 Signature  
Andrea Nino-Garcia  
Witness 2 Printed Name

10 AUGUST 2016  
Date

  
Raúl Velasco Pelaez

We, NICOLAS GOYHENEIX and ALEX LONDOÑO R., the undersigned witnesses hereby declare that we were personally present and did see the signatory, **Raúl Velasco Pelaez** who is personally known to us, duly sign and execute this Assignment.

10 AUGUST 2016  
Date

  
Witness 1 Signature

NICOLAS GOYHENEIX  
Witness 1 Printed Name

10 August 2016  
Date

Alex Londoño R.  
Witness 2 Signature

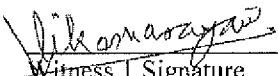
ALEX LONDOÑO RODRIGUEZ  
Witness 2 Printed Name

14 SEP 2016  
Date

  
Ravichander Narayanaswamy


We, VIKAS NARAYAN and S-GOPALA KRISHNA, the undersigned witnesses hereby declare that we were personally present and did see the signatory, **Ravichander Narayanaswamy** who is personally known to us, duly sign and execute this Assignment.

14 SEP 2016  
Date

  
Witness 1 Signature

VIKAS NARAYAN  
Witness 1 Printed Name

14 SEP 2016  
Date

  
Witness 2 Signature

S. GOPALA KRISHNA  
Witness 2 Printed Name

14th SEP, 2016  
Date

R. Vijayanand  
Vijayanand Rajagopalan

We, VILAS NARAYAN and S. GOPALA KRISHNA, the undersigned witnesses hereby declare that we were personally present and did see the signatory, **Vijayanand Rajagopalan** who is personally known to us, duly sign and execute this Assignment.

14th SEP, 2016  
Date

Vikas Narayan  
Witness 1 Signature

VIKAS NARAYAN  
Witness 1 Printed Name

14th SEP, 2016  
Date

S. Gopala Krishna  
Witness 2 Signature


S. GOPALA KRISHNA  
Witness 2 Printed Name

8-8-2016  
Date

  
Joris Van Willigenburg

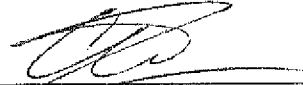
We, SOLIA DI DOMENICO PINTO and \_\_\_\_\_, the undersigned  
witnesses hereby declare that we were personally present and did see the signatory,  
**Joris Van Willigenburg** who is personally known to us, duly sign and execute this Assignment.

8-8-2016  
Date

  
Witness 1 Signature

SOLIA DI DOMENICO PINTO  
Witness 1 Printed Name

8-8-2016  
Date

  
Witness 2 Signature

A.W. van Zyl  
Witness 2 Printed Name