

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5860912

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
AKASH MITTAL	06/01/2018
ABDULJELIL ILIYAS	12/21/2017
<b>RECEIVING PARTY DATA</b>	
<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>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16621301
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(512)536-4598
<i>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.</i>	
<b>Email:</b>	jessica.behrens@nortonrosefulbright.com
<b>Correspondent Name:</b>	NORTON ROSE FULBRIGHT US LLP
<b>Address Line 1:</b>	98 SAN JACINTO BLVD.
<b>Address Line 2:</b>	SUITE 1100
<b>Address Line 4:</b>	AUSTIN, TEXAS 78701
<b>ATTORNEY DOCKET NUMBER:</b>	SABM.P0054US.1001100637
<b>NAME OF SUBMITTER:</b>	JESSICA BEHRENS
<b>SIGNATURE:</b>	/Jessica Behrens/
<b>DATE SIGNED:</b>	12/11/2019
<b>Total Attachments: 2</b>	
source=SABMP0054US_Decl#page1.tif	
source=SABMP0054US_Decl#page2.tif	

## DECLARATION AND ASSIGNMENT

Title of Invention: **A HYBRID MACHINE LEARNING APPROACH TOWARDS OLEFINS PLANT OPTIMIZATION**

As a below named inventor, I hereby declare that:

This Declaration and Assignment is directed to:

- ☐ the attached application (Attorney Docket Number \_\_\_\_\_), or  
☒ U.S. provisional patent application number 62/519,715 filed on June 14, 2017.  
☐ which claims priority to Patent application number \_\_\_\_\_ filed on \_\_\_\_\_

The above-identified application was made or authorized to be made by me, and I have reviewed and understand the contents of the application, including the claims.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR Section 1.56.

Whereas, each undersigned inventor has made certain inventions, improvements, and discoveries (herein referred to as the "INVENTION") disclosed in the above-identified patent application (herein referred to as the "APPLICATION");

Whereas, SABIC Global Technologies B.V., a private company with limited liability, with corporate seat in Amsterdam, the Netherlands, and office address at Plasticlaan 1, 4612 PX Bergen op Zoom, the Netherlands, (herein referred to as "ASSIGNEE") desires to acquire or has acquired, and each undersigned inventor acknowledges the obligation to assign to ASSIGNEE, and the parties desire to use this Declaration and Assignment to memorialize the grant to ASSIGNEE of the entire worldwide right, title, and interest in and to the INVENTION including all embodiments thereof, and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor (herein referred to as "ASSIGNOR") hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to the ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the INVENTION, the APPLICATION, and any and all other patent applications and patents for the INVENTION which may be applied for or granted therefor in any and all countries and jurisdictions, including all divisions, continuations, continuations-in-part, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned inventor hereby authorizes and requests any official whose duty it is to issue patents, to issue any patent on said improvements or resulting therefrom to said ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned inventor agrees on behalf of themselves, their successors and legal representatives, to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the INVENTION, the APPLICATION, and all related patents and applications, in ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by ASSIGNEE, its successors, legal representatives, and assigns.

Each undersigned inventor also hereby grants ASSIGNEE, its successors, legal representatives, and assigns, the right to insert in this Declaration and Assignment any further identification of the APPLICATION (including, but not limited to, Application Number and filing date, and Attorney Docket Number), and further grants ASSIGNEE, its successors, legal representatives, and assigns the right to execute confirmatory assignments on their behalf.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Signature: Akash Mittal Date: 01-JUN-2018  
 Name of Inventor: AKASH MITTAL

Witness: Rajashree Dongare Date: June 7, 2018 Witness: P. Manikandan Date: 01. Jun. 2018  
 Printed Name: Rajashree Dongare Printed Name: P. MANIKANDAN

**DECLARATION AND ASSIGNMENT**

Title of Invention: **A HYBRID MACHINE LEARNING APPROACH TOWARDS OLEFINS PLANT OPTIMIZATION**

As a below named inventor, I hereby declare that:

This Declaration and Assignment is directed to:

- ☐ the attached application (Attorney Docket Number \_\_\_\_\_), or  
☒ U.S. provisional patent application number 62/519,715 filed on June 14, 2017.  
☐ which claims priority to Patent application number \_\_\_\_\_ filed on \_\_\_\_\_.

The above-identified application was made or authorized to be made by me, and I have reviewed and understand the contents of the application, including the claims.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR Section 1.56.

Whereas, each undersigned inventor has made certain inventions, improvements, and discoveries (herein referred to as the "INVENTION") disclosed in the above-identified patent application (herein referred to as the "APPLICATION");

Whereas, SABIC Global Technologies B.V., a private company with limited liability, with corporate seat in Amsterdam, the Netherlands, and office address at Plasticolaan 1, 4612 PX Bergen op Zoom, the Netherlands, (herein referred to as "ASSIGNEE") desires to acquire or has acquired, and each undersigned inventor acknowledges the obligation to assign to ASSIGNEE, and the parties desire to use this Declaration and Assignment to memorialize the grant to ASSIGNEE of the entire worldwide right, title, and interest in and to the INVENTION including all embodiments thereof, and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor (herein referred to as "ASSIGNOR") hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to the ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the INVENTION, the APPLICATION, and any and all other patent applications and patents for the INVENTION which may be applied for or granted therefor in any and all countries and jurisdictions, including all divisions, continuations, continuations-in-part, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned inventor hereby authorizes and requests any official whose duty it is to issue patents, to issue any patent on said improvements or resulting therefrom to said ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned inventor agrees on behalf of themselves, their successors and legal representatives, to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the INVENTION, the APPLICATION, and all related patents and applications, in ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by ASSIGNEE, its successors, legal representatives, and assigns.

Each undersigned inventor also hereby grants ASSIGNEE, its successors, legal representatives, and assigns, the right to insert in this Declaration and Assignment any further identification of the APPLICATION (including, but not limited to, Application Number and filing date, and Attorney Docket Number), and further grants ASSIGNEE, its successors, legal representatives, and assigns the right to execute confirmatory assignments on their behalf.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Signature: [Signature]  
 Name of Inventor: **ABDULJELIL ILIYAS**

Date: December 21, 2017

Witness: [Signature] Date: 21-Dec-2017

Witness: [Signature]

Date: 21/Dec/2017

Printed Name: Abdulhach Althebiti Printed Name: Abdulhach Althebiti

**PATENT**