PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3443176

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ANTENEH A. WORKU	06/07/2011
MICHAEL J. MULLINS	06/06/2011

RECEIVING PARTY DATA

Name:	DOW GLOBAL TECHNOLOGIES LLC
Street Address:	2040 DOW CENTER
City:	MIDLAND
State/Country:	MICHIGAN
Postal Code:	48674

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14110939

CORRESPONDENCE DATA

Fax Number: (989)636-3237

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: 989-636-7934
Email: kswertz@dow.com
Correspondent Name: KATHY WERTZ
Address Line 1: 2040 DWO CENTER

Address Line 4: MIDLAND, MICHIGAN 48674

ATTORNEY DOCKET NUMBER:	70763-US-PCT
NAME OF SUBMITTER:	KATHY WERTZ
SIGNATURE:	/Kathy Wertz/
DATE SIGNED:	07/17/2015

Total Attachments: 3

source=70763-US-PCT 20150717 KSW Inventor to DGTL Assignment#page1.tif source=70763-US-PCT 20150717 KSW Inventor to DGTL Assignment#page2.tif source=70763-US-PCT 20150717 KSW Inventor to DGTL Assignment#page3.tif

PATENT 503396551 REEL: 036122 FRAME: 0905

num 110 is in the ENGLISH language and has the same meaning in other languages with the same 110 number and R/Date

FORM 110 (R 5/97)

INDIVIDUAL ASSIGNMENT AND INVENTOR'S DECLARATION

(with Priority Rights)

I/we verily believe I am/we are the original, first and sole/joint inventor(s) of the subject matter which is embraced by and for which a patent is sought on the invention entitled: PHOSPHORUS-CONTAINING COMPOUNDS USEFUL FOR MAKING HALOGEN-FREE, IGNITION-RESISTANT POLYMERS

which invention was made and invented by me/us out of and in the course of my/our employment with my/our respective employers as stated below my/our name(s). I/we acknowledge that I/we hold the invention and all patent and other rights and powers obtainable or exercisable in respect thereof in trust for our respective employers. As trustee(s), and for good and valuable consideration and/or the remuneration received for my/our work, I/we sell, assign and transfer unto:

Dow Global Technologies LLC 2040 Dow Center Midland, Michigan 48674 United States of America

a limited liability company organized and existing under the laws of the State of Delaware (hereinafter referred to as the "Assignee"); my/our entire right, title and interest throughout the world, in and to the invention and all rights and powers to make applications, including provisional applications when permitted by law, for Letters Patent in its own name, or in the name of its designee (or nominee(s)); and all rights and powers to file any corresponding or equivalent applications in any and all countries, including all rights to claim priority under all United States domestic laws, International Convention(s) and Treaties in the name of Assignee, and do hereby authorize Assignee or its designee to insert here the Priority Number, Filing Date, and Filing Country

Priority Number	Filing Date	Filing Country
61/489,705	May 25, 2011	United States of America

of the application, on which the claim for priority will be based; and in and to any Letters Patent that may be issued for the invention in any and all countries. I'we do hereby agree to assist Assignee in the prosecution of the application(s) and in any interference, conflict, opposition or litigation which may arise involving the invention or the patent or patents thereon, and to execute for any and all countries any document relating to applications derived from, corresponding to or equivalent to the above identified application as Assignee may request.

I/we authorize Assignee or its designee to translate this Assignment into all languages necessary; and we request that any such Letters Patent be issued to Assignee; and consent to the recordal of this Assignment, or a Notarial True Copy thereof, being under covenant not only that I/we have full power to make the same, but also that such assigned rights are not encumbered by any grant, license, or other right heretofore given.

Subscribed and Declared by me/us:

At: Freeport, Texas 77541, USA	At: Freeport, Texas 77541, USA
this 7th day of	this 6th day of June , 20 11
Effective as of May 25, 2011	Effective as of May 25, 2011
Signature: Description of Country: United States of America P.O. Address: Same as Residence Employed By: The Dow Chemical Company Of Country: United States of America P.O. Address: Same as Residence Employed By: The Dow Chemical Company Of Country: United States of America	Signature: Michael J. Mullins Residence: 2217 Sheridan Street Houston, Texas 77030 Country: United States of America Citizenship: United States of America P.O. Address: Same as Residence Employed By: The Dow Chemical Company Of Country: United States of America
At:	At:
this day of, 20	this, 20
Effective as of	Effective as of
1	
Signature:	Signature: Full Name: Residence:
Full Name: Residence:	Signature: Full Name: Residence:
Full Name: Residence: Country:	Signature: Full Name: Residence:
Full Name: Residence:	Signature: Full Name: Residence: Country: Citizenship:
Full Name: Residence: Country: Citizenship: P.O. Address:	Signature: Full Name: Residence: Country: Citizenship: P.O. Address:
Full Name: Residence: Country: Citizenship:	Signature: Full Name: Residence: Country: Citizenship:

() Additional names and signatures are attached.

CASE NO. 70763-US-PSP mr
This Assignment 220 is in the ENGLISH language and has the same meaning in other languages with the same 220 number and R/Date.

This Assignment 220 is in the ENGLISH language and has the same meaning in other languages with the same 220 number and R/Date.

This Assignment 220 is in the ENGLISH language and has the same meaning in other languages with the same 220 number and R/Date
FORM 220

NOTARI	AL CERTIFICATE (Individual)
UNITED STATES OF AMERICA STATE OF TEXAS County/Parish of Brazoria)) SS)
On this 7th day of June	
	Anteneh Z. Worku adividual described in and who executed the foregoing document act and deed for uses and purposes therein expressed.
SEAL	Kistyn Huffman
KRISTYN M. HUFFMAN Notary Public, State of Texas My Commission Expires December 08, 2014	ų V.
NOTARI	AL CERTIFICATE (Individual)
UNITED STATES OF AMERICA STATE OF TEXAS County/Parish of Brazoria)) SS)
On this bear day of June	, 20 \\ , personally appeared before me
	Michael J. Mullins addividual described in and who executed the foregoing document act and deed for uses and purposes therein expressed.
SEAL	Kistys Huffman
KRISTYN M. HUFFMAN Notary Public, State of Texas My Commission Expires December 08, 2014	

●660● 660**●**

This Assignce Acceptance 660 is in the ENGLISH language and has the same meaning in other languages with the same 660 number. FORM 660

ASSIGNEE ACCEPTANCE

WE, the ASSIGNEE:

DOW GLOBAL TECHNOLOGIES LLC

2040 Dow Center

Midland, Michigan 48674 United States of America

hereby accept the ASSIGNMENT attached hereto which is dated: June 7, 2011 and June 6, 2011; effective as of May 25, 2011

From, the ASSIGNOR: Anteneh Z. Worku, 10008 Erin Glen Way, Pearland, Texas 77584, United States of America, Citizen of United States of America and Michael J. Mullins, 2217 Sheridan Street, Houston, Texas 77030, United States of America, Citizen of United States of America

of the invention entitled:

PHOSPHORUS-CONTAINING COMPOUNDS USEFUL FOR MAKING HALOGEN-FREE, IGNITION-RESISTANT POLYMERS

without any restrictions and with all rights and obligations deriving therefrom and declare that this confirmation of acceptance shall be deemed a part of the said ASSIGNMENT.

Signed at	Midland, Michiga	n 48674, USA		
this <u>: : : 17 c</u>	day of Jun	<u>.</u>	, 20 //	
GORP SEAL			AOM EANGEN Representative	iability Company)
STATE OF I	ATES OF AME MICHIGAN sh of Midland	RICA)) SS)		
before me, Je known or ident and acknowled authority of the	ged the same as a fro	EN, Authorized Re individual describe ee act and deed for lity Company inco	epresentative, ed in and who exe uses and purposes	, personally appeared cuted the foregoing document therein expressed by the laws of the State of
I further certify	that said authority,	dated January 6, 2	2011, is based on	
A delegation o	f signature authori	ty of said Limited	Liability Compa	ny
the foregoing d	ocument on behalf our comment is granted are	of the said Limited within the scope o	Liability Compa	ative with full power to sign ny and that the purposes for tivities of said Limited

SEAL

NOTARY PUBLIC, MIDLAND COUNTY, MICHIGAN MY COMMISSION EXPIRES APRIL 07, 2012

PATENT REEL: 036122 FRAME: 0908

RECORDED: 07/17/2015