

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

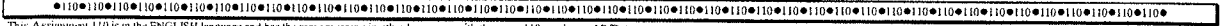
EPAS ID: PAT2729229

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>ANTONI ADAMCZYK</td> <td>09/07/2011</td> </tr> <tr> <td>DANIEL EMLEY</td> <td>08/23/2011</td> </tr> <tr> <td>NEIL W. DUNCHUS</td> <td>08/23/2011</td> </tr> <tr> <td>JEFFREY M. COGEN</td> <td>08/23/2011</td> </tr> <tr> <td>SUSAN SONG</td> <td>09/24/2011</td> </tr> </tbody> </table>		Name	Execution Date	ANTONI ADAMCZYK	09/07/2011	DANIEL EMLEY	08/23/2011	NEIL W. DUNCHUS	08/23/2011	JEFFREY M. COGEN	08/23/2011	SUSAN SONG	09/24/2011
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SUSAN SONG	09/24/2011												
RECEIVING PARTY DATA													
Name:	UNION CARBIDE CHEMICALS & PLASTICS TECHNOLOGY LLC												
Street Address:	2020 DOW CENTER												
City:	MIDLAND												
State/Country:	MICHIGAN												
Postal Code:	48674												
PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13699952</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13699952								
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Application Number:	13699952												
CORRESPONDENCE DATA													
Fax Number:	(414)223-5000												
Phone:	4149785559												
Email:	jpolmatier@whdlaw.com												
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>													
Correspondent Name:	JERE L POLMATIER												
Address Line 1:	WHYTE HIRSCHBOECK DUDEK SC												
Address Line 2:	555 EAST WELLS STREET, SUITE 1900												
Address Line 4:	MILWAUKEE, WISCONSIN 53202												
ATTORNEY DOCKET NUMBER:	DOW-36562-A-US												
NAME OF SUBMITTER:	JERE L. POLMATIER												

PATENT

Signature:	/jlp/
Date:	02/17/2014
Total Attachments: 3 source=DOW36562assign#page1.tif source=DOW36562assign#page2.tif source=DOW36562assign#page3.tif	

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



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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: **THIOBIS PHENOLIC ANTIOXIDANT/POLYETHYLENE GLYCOL BLENDS**

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:

Union Carbide Chemicals & Plastics Technology LLC
2020 Dow Center
Midland, Michigan 48674

a limited liability company organized and existing under the laws 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
PCT/US2011/039546	June 8, 2011	International

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: <u>Spring House, PA USA</u>
this <u>7</u> day of <u>Sept</u> , 20 <u>11</u>
Effective as of June 8, 2011
Signature:
Full Name: Antoni Adamczyk
Residence: 187 Dunellen Avenue Piscataway, New Jersey 08854 UNITED STATES OF AMERICA
Country: United States of America
Citizenship: United States of America
P.O. Address: Same as residence
Employed By: Union Carbide Corporation
Of Country: United States of America

At: <u>SPRINGHOUSE, PA USA</u>
this <u>23</u> day of <u>August</u> , 20 <u>11</u>
Effective as of June 8, 2011
Signature:
Full Name: Daniel Emley
Residence: 15 Rossini Road Manchester, New Jersey 08759 UNITED STATES OF AMERICA
Country: United States of America
Citizenship: United States of America
P.O. Address: Same as residence
Employed By: Union Carbide Corporation
Of Country: United States of America

At: <u>Spring House, PA USA</u>
this <u>23</u> day of <u>August</u> , 20 <u>11</u>
Effective as of June 8, 2011
Signature:
Full Name: Neil W. Dunchus
Residence: 6 Dogwood Trail Kinnelon, New Jersey 07405 UNITED STATES OF AMERICA
Country: United States of America
Citizenship: United States of America
P.O. Address: Same as residence
Employed By: Union Carbide Corporation
Of Country: United States of America

At: <u>Spring House, PA USA</u>
this <u>23</u> day of <u>August</u> , 20 <u>11</u>
Effective as of June 8, 2011
Signature:
Full Name: Jeffrey M. Cogen
Residence: 6 Braintree Court Flemington, New Jersey 08822 UNITED STATES OF AMERICA
Country: United States of America
Citizenship: United States of America
P.O. Address: Same as residence
Employed By: Union Carbide Corporation
Of Country: United States of America

(X) Additional names and signatures are attached.

At: High Bridge, NJ
 this 24 day of September, 2011
 Effective as of June 8, 2011

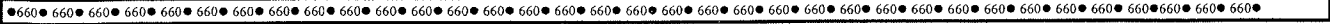
Signature: [Signature]
 Full Name: Susan Song
 Residence: 17 Manning Court
 High Bridge, New Jersey 08829
 UNITED STATES OF AMERICA
 Country: United States of America
 Citizenship: United States of America
 P.O. Address: Same as residence
 Employed By: Union Carbide Corporation*
 Of Country: United States of America
 *At the time the invention was made.

At: _____
 this _____ day of _____, 20____

Signature: _____
 Full Name: _____
 Residence: _____

Country: _____
 Citizenship: _____
 P.O. Address: _____
 Employed By: _____
 Of Country: _____

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



This Assignee 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: **UNION CARBIDE CHEMICALS & PLASTICS TECHNOLOGY LLC**
2020 Dow Center
Midland, Michigan 48674
United States of America

hereby accept the ASSIGNMENT attached hereto which is dated: August 23, 2011; September 7, 2011; September 24, 2011; with an effective date as of June 8, 2011

From, the ASSIGNOR: Antoni Adamczyk, 187 Dunellen Avenue, Piscataway, New Jersey 08854, United States of America, Citizen of United States of America; Daniel Emley, 15 Rossini Road, Manchester, New Jersey 08759, United States of America, Citizen of United States of America; Susan Song, 17 Manning Court, High Bridge, New Jersey 08829, United States of America, Citizen of United States of America; Neil W. Dunchus, 6 Dogwood Trail, Kinnelon, New Jersey 07405, United States of America, Citizen of United States of America; and Jeffrey M. Cogen, 6 Braintree Court, Flemington, New Jersey 08822, United States of America, Citizen of United States of America

of the invention entitled:

THIOBIS PHENOLIC ANTIOXIDANT/POLYETHYLENE GLYCOL BLENDS

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, Michigan 48674, USA
this 11 day of October, 20 11

UNION CARBIDE CHEMICALS & PLASTICS TECHNOLOGY LLC

CORP.
SEAL

By: Charles J. Maurer III
CHARLES J. MAURER III
Secretary

NOTARIAL CERTIFICATE (Corporation)

UNITED STATES OF AMERICA)
STATE OF MICHIGAN) SS
County/Parish of Midland)

On this 11 day of October, 20 11, personally appeared before me, **CHARLES J. MAURER III, Secretary**, known or identified to me to be the individual described in and who executed the foregoing document and acknowledged the same as a free act and deed for uses and purposes therein expressed by authority of the said limited liability company incorporated under the laws of **the State of Delaware, United States of America**.

I further certify that said authority, dated **December 31, 2007**, is based on

Authorization Policy of said Limited Liability Company

which I have seen, appointing the said individual Secretary with full power to sign the foregoing document on behalf of the said limited liability company and that the purposes for which said document is granted are within the scope of the objects or activities of said limited liability company.

Jane M. Neitzel

Jane M. Neitzel
NOTARY PUBLIC, BAY COUNTY, MICHIGAN
ACTING IN MIDLAND COUNTY, MICHIGAN
MY COMMISSION EXPIRES SEPTEMBER 26, 2013

SEAL

PATENT