

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Herbert T. Connor</td> <td>03/23/2010</td> </tr> <tr> <td>Patrick J. Gast</td> <td>03/23/2010</td> </tr> <tr> <td>John C. Gast</td> <td>03/23/2010</td> </tr> </tbody> </table>		Name	Execution Date	Herbert T. Connor	03/23/2010	Patrick J. Gast	03/23/2010	John C. Gast	03/23/2010				
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CORRESPONDENCE DATA													
<p>Fax Number: (302)594-6998</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 3025946977</p> <p>Email: ddsmith@ashland.com</p> <p>Correspondent Name: Hercules Incorporated</p> <p>Address Line 1: Hercules Plaza</p> <p>Address Line 2: 1313 North Market Street</p> <p>Address Line 4: Wilmington, DELAWARE 19894-0001</p>													
ATTORNEY DOCKET NUMBER:	10705												
NAME OF SUBMITTER:	Robert O'Flynn O'Brien												
Total Attachments: 4													

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Filed February 3, 2010DKT 10705ASSIGNMENT

WHEREAS, We, CONNER, Herbert T. of 121 Glennann Drive, Landenberg, PA 19350, in the County of Chester and State of Delaware; and COWAN, Patrick J. of 13 Bernard Blvd., Hockessin, DE 19707, in the County of New Castle and State of Delaware; and GAST, John C. of 10 Kings Grant Rd., Hockessin, DE 19707, in the County of New Castle and State of Delaware; respectively; have invented certain new and useful improvements in Process For Treating Biomass To Derivatize Polysaccharides Contained Therein To Increase Their Accessibility To Hydrolysis And Subsequent Fermentation described in a patent application executed by us on the 23rd day of March 2010 and identified as DKT#10705, and of which improvements, in and for the United States, its territories, dependencies and possessions, and for all foreign countries, we are now the joint owners; and

WHEREAS, **HERCULES INCORPORATED**, a corporation duly organized and existing under and by virtue of the laws of the State of Delaware, and having its principal office and place of business in Wilmington, Delaware, is desirous of acquiring the entire right, title and interest, for the United States, its territories, dependencies and possessions, and for all foreign countries, in and to the said improvements, application, invention or inventions, and any Letters Patent that might be granted therefor or thereupon, the said **HERCULES INCORPORATED**, its successors and assigns, being hereinafter referred to as "HERCULES."

NOW, THEREFORE, be it known that for good and valuable consideration by us received from said **HERCULES**, the receipt of which is hereby acknowledged, we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, to and unto **HERCULES**, our entire right, title and interest, for and in the United States, its territories, dependencies and possessions, and for and in all foreign countries, in and to:

- (1) Said invention or inventions, and, in, to and under the above-identified patent application, and
- (2) All improvements and modifications of said invention or inventions which we, solely or jointly have made or conceived, or shall make or conceive, while we are employed by **HERCULES**, and
- (3) All Letters Patent which may be granted by the United States of America, and countries foreign thereto, for or upon said application, invention or inventions, or said improvements or modifications, and in, to and under all reissues and extensions of said Letters Patent, and in, to and under all renewals, divisions, substitutes and continuations of the aforesaid application, and of any application filed in any country for any improvement or modification mentioned in clause (2) above; any priority rights

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derived from the aforesaid application for Letters Patent by virtue of the International Convention for the Protection of Industrial Property and any other treaty or understanding for intellectual property for any and all member countries of the aforesaid International Convention or other treaty or understanding and we hereby authorize and request the Commissioner of Patents to issue all Letters Patent of the United States of America on the said invention or inventions to HERCULES as assignee of the entire interest therein.

The inventions and the improvements and modifications mentioned in clauses (1), (2), and (3), above, are hereinafter referred collectively as "said inventions".

And, for the above-mentioned considerations, we do hereby covenant and agree:

First: That we will promptly and fully disclose to HERCULES all such improvements and modifications invented by us, and we will freely, fully and promptly communicate (in writing if requested) to HERCULES, or its nominee, all facts, information and evidence possessed or known by or available to us which concern "said inventions", and, at the request of HERCULES, that we will testify in interferences and other legal proceedings which may involve "said inventions".

Second: That we will render HERCULES, at its expense, all assistance which in its sole opinion is necessary to obtain and enforce patent protection in the United States, its territories, dependencies and possessions, and countries foreign thereto, for "said inventions". If we are not employed by HERCULES, a reasonable per diem charge shall be paid by HERCULES for time spent by us in such connection.

Third: That we will, at the request and at the expense of HERCULES, but without further compensation therefor, execute - (a) any and all original, divisional, continuation, substitute, renewal or other applications for Letters Patent of the United States, its territories, dependencies and possessions, and of foreign countries, for "said inventions", (b) any and all applications for the reissue or extension of any Letters Patent of the United States, its territories, dependencies and possessions, and of foreign countries that may be granted upon said application or for "said inventions", and (c) all assignments and other papers that HERCULES may deem necessary or expedient to secure the grant of each and all of said Letters Patent to HERCULES, or its nominee, and to protect and vest in HERCULES the entire right, title and interest, for the United States, its territories, dependencies and possessions, and for foreign countries, in and to "said inventions" and Letters Patent of the United States, its territories, dependencies and possessions, and for foreign countries.

IN TESTIMONY WHEREOF, we have hereunto set our hand respectively this
23 day of March 2010.

Herbert T. Conner (L.S.)
 Herbert T. Conner

STATE OF Pennsylvania)
) SS.
 COUNTY OF Chester)

I, the undersigned, a Notary Public in and for the State and County aforesaid, do hereby certify that Herbert T. Conner, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he executed the said instrument as his free and voluntary act, for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and notarial seal this
23rd day of March 2010.

Joseph G. Antkowiak
 Notary Public
 My commission expires 3.12.11

SEAL

IN TESTIMONY WHEREOF, we have hereunto set our hand respectively this
23 day of March 2010.

Patrick J. Cowan (L.S.)
 Patrick J. Cowan

STATE OF Delaware)
) SS.
 COUNTY OF New Castle)

I, the undersigned, a Notary Public in and for the State and County aforesaid, do hereby certify that Patrick J. Cowan, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he executed the said instrument as his free and voluntary act, for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and notarial seal this
23rd day of March 2010.

Joseph G. Antkowiak
 Notary Public
 My commission expires 3.12.11

SEAL


IN TESTIMONY WHEREOF, we have hereunto set our hand respectively this 23 day of March 2010.

John C. Gast (L.S.)

STATE OF Delaware)
) SS.
COUNTY OF New Castle)

I, the undersigned, a Notary Public in and for the State and County aforesaid, do hereby certify that John C. Gast, personally known to me to be the same person whose name is subscribed to the foregoing instrument, appeared before me this day in person and acknowledged that he executed the said instrument as his free and voluntary act, for the uses and purposes therein set forth.

IN WITNESS WHEREOF, I have hereunto set my hand and notarial seal this 23rd day of March 2010.


 Notary Public
 My commission expires 3-18-11

SEAL