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PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date |
|--------------------|----------------|
| JOHN C DERUYTER | 10/24/2014 |
| KENNETH MILES HILL | 12/05/2014 |
| STEVEN W OGLE | 11/05/2014 |
| STEPHANIE C VRAKAS | 11/05/2014 |

RECEIVING PARTY DATA

| Name: | E. I. DU PONT DE NEMOURS AND COMPANY |
|-------------------|--------------------------------------|
| Street Address: | 974 CENTRE ROAD |
| Internal Address: | CHESTNUT RUN PLAZA 721/2340 |
| City: | WILMINGTON |
| State/Country: | DELAWARE |
| Postal Code: | 19805 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 14510149 |

CORRESPONDENCE DATA

Fax Number: (302)351-7299

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: 302 999 4278

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Correspondent Name: E. I. DU PONT DE NEMOURS AND COMPANY

Address Line 1: 974 CENTRE ROAD

Address Line 2:CHESTNUT RUN PLAZA 721/2340Address Line 4:WILMINGTON, DELAWARE 19805

| ATTORNEY DOCKET NUMBER: | CL6286-US-NP |
|-------------------------|-------------------|
| NAME OF SUBMITTER: | JULIE BERGEMANN |
| SIGNATURE: | /Julie Bergemann/ |
| DATE SIGNED: | 01/06/2015 |
| | |

Total Attachments: 4

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We, the undersigned

JOHN C DERUYTER, KENNETH MILES HILL, STEVEN W OGLE, STEPHANIE C. VRAKAS

Hereby declare that

We are the inventors of an invention entitled

LIGNOCELLULOSIC BIOMASS FERMENTATION PROCESS CO-PRODUCT FUEL FOR CEMENT KILN

which is disclosed in the United States Patent Application No. 14/510149 filed on October 09, 2014 and which is identified as Case Number CL6286-US-NP.

For valuable consideration, the receipt and adequacy of which is hereby acknowledged and in fulfillment of our pre-existing obligation of assignment, we hereby:

- I. Sell, assign, and transfer unto E I DU PONT DE NEMOURS AND COMPANY, a corporation organized and existing under the laws of the State of Delaware in the United States of America and having its principal place of business at Wilmington, Delaware, hereinafter referred to as the assignee. (A) the entire right, title, and interest in and to: (1) the aforesald application for Letters Patent, (2) any priority rights derived from the aforesald 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 aforesald International Convention or other treaty or understanding, (3) any and all our inventions, whether joint or sole, disclosed in the aforesald application for Letters Patent, (4) any and all applications for Letters Patent for any such inventions in any country whatsoever, (6) any and all patents for any such inventions in any country whatsoever; and (B) the sole right to (1) file such applications in its name or ours, (2) file such applications under the aforesald International Convention or other treaty or understanding, (3) have said patents granted in its name or ours, and (4) enforce said patents and to sue for and recover profits and damages for any and all infringements thereof whether past or future; and
- II. Agree, whenever requested, to communicate to said assignee, its successors, assigns, and legal representatives, any facts known to us respecting said inventions or the rights described above, to testify in any legal proceeding respecting said inventions or the rights described above, the location of that testimony to be in the country in which we reside or in the nearest country in which such testimony is legal should our country of residence prohibit such testimony, to execute all applications, papers or instruments necessary or required by said assignee, its successors, assigns and legal representatives, to carry into effect any of the provisions of this instrument, and generally to do everything possible to aid said assignee, its successors, assigns, and legal representatives to obtain and enforce proper patent protection for said inventions.

| JOHN G DERUYTER, DATE: 10/24/14 | STEVEN W OGLE DATE: | (L,S.) |
|---------------------------------|------------------------------|--------|
| KENNETH MILES HILL DATE: | STEPHANIE C. VRAKAS DATE: | (L.S.) |

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| | (L.S.) |
|---------------------|--------------------------|
| STEVEN W OGLE | , |
| DATE: | |
| | |
| | (L.S.) |
| STEPHANIE C. VRAKAS | - |
| DATE: | |
| | DATE:STEPHANIE C. VRAKAS |

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| JOHN C DERUYTER DATE: | (L,S,) | Gen W Dle | a s |
|--------------------------|--------|--|---------|
| KENNETH MILES HILL | (L.S.) | STEVEN W OGLE DATE: 5 November 2014 | (L. O., |
| DATE: | | OWERS LANDER OF A CONTRACTOR | (L.S.) |
| | | STEPHANIE C. VRAKAS DATE: | |

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| JOHN C DERUYTER DATE: | _(L.S.) STEVEN W OGLE - DATE: | | (L.S.) | |
|-----------------------------|-------------------------------|--|--------|--|
| KENNETH MILES HILL DATE: | _(L.S.) | STEPHANIE C. VRAKAS DATE: 11-5-2014 | (L.S.) | |

PATENT REEL: 034641 FRAME: 0674

RECORDED: 01/06/2015