# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT6885571

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

**CONVEYING PARTY DATA**

| Name | Execution Date |
|---|---|
| E. I. DU PONT DE NEMOURS AND COMPANY | 03/31/2010 |

**RECEIVING PARTY DATA**

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| **Name:** | BUTAMAX ADVANCED BIOFUELS LLC |
| **Street Address:** | EXPERIMENTAL STATION, BUILDING 268 |
| **Internal Address:** | 200 POWDER MILL ROAD |
| **City:** | WILMINGTON |
| **State/Country:** | DELAWARE |
| **Postal Code:** | 19880-0268 |

**PROPERTY NUMBERS Total: 11**

| Property Type | Number |
|---|---|
| **Application Number:** | 13205351 |
| **Application Number:** | 12939284 |
| **Application Number:** | 13299954 |
| **Application Number:** | 13479643 |
| **Application Number:** | 13838899 |
| **Application Number:** | 12939315 |
| **Application Number:** | 13838508 |
| **Application Number:** | 13838869 |
| **Application Number:** | 13031776 |
| **Application Number:** | 14585261 |
| **Application Number:** | 15067421 |

**CORRESPONDENCE DATA**

**Fax Number:** (856)810-1454

***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.***

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**Address Line 2:** 66 E. MAIN ST.

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|---|---|
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| **NAME OF SUBMITTER:** | JANE MASSEY LICATA |
| **SIGNATURE:** | /Jane Massey Licata/ |
| **DATE SIGNED:** | 08/26/2021 |

**Total Attachments: 6**
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# ASSIGNMENT

E. I. du Pont de Nemours and Company hereby declares that it is the assignee of the entire right, title, and interest in the U.S. Applications for Letters Patent as listed in Schedule 1, attached hereto by virtue of the assignments filed with the U.S. Patent and Trademark Office as indicated on Schedule 1; and for valuable consideration, the receipt and adequacy of which is hereby acknowledged and in fulfillment of pre-existing obligation of assignment, E. I. du Pont de Nemours and Company hereby:

I. Assigns and transfers unto Butamax™ Advanced Biofuels LLC a corporation organized and existing under the laws of the State of Delaware and having a principal place of business in Wilmington, Delaware: (1) the entire interest throughout the world in and to the aforesaid Applications for Letters Patent including any priority rights derived from the aforesaid Applications for Letters Patent by virtue of the U.S. patent law, including all divisions, continuations, continuations-in-part, substitute applications, renewals, reissues, re-examinations and all foreign counterparts thereof; or the International Convention for the Protection of Industrial Property for any and all member countries of the aforesaid International Convention or other treaty or understanding,; (2) the entire interest in and to any and all inventions disclosed in the aforesaid Applications for inventions disclosed in the aforesaid Applications for Letters Patent; (3) any and all patent applications corresponding to the aforesaid U.S. Applications for Letters Patent; and (4) the sole right: (i) to file any additional applications; (ii) file such applications under the aforesaid International Convention or other treaty or understanding; (iii) have said patents granted in its name or ours; and (iv) 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 assignees, their successors, assigns, and legal representatives, any facts known to us respecting said rights, to testify in any legal proceeding respecting said rights, to execute all applications, papers or instruments necessary or required by said assignees, their 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 assignees, their successors, assigns, and legal representatives to obtain and enforce proper patent protection for said inventions in any and all countries.

**E. I. du Pont de Nemours and Company**

By R Nanette Marcus

Name R. Nanette Marcus

Title ASSISTANT Secretary, Patent Board

Date March 31, 2010

RECEIVED BY:

**Butamax™ Advanced Biofuels LLC**

By Roger A. Bowman

Name ROGER A. BOWMAN

Title Assistant Secretary - Patent Board

Date March 31, 2010

| | A | B | C | D | E | F |
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| 1 | | | SCHEDULE 1 | | | |
| 2 | | | | | | |
| 3 | | | | | | |
| 4 | Serial No. | Filing date | Title | Reel Number | Frame Number | Recordation date |
| 5 | 11/527995 | 09/27/2006 | FERMENTIVE PRODUCTION OF FOUR CARBON ALCOHOLS | | | |
| 6 | 11/586315 | 10/25/2006 | FERMENTIVE PRODUCTION OF FOUR CARBON ALCOHOLS | | | |
| 7 | 11/741892 | 04/30/2007 | FERMENTIVE PRODUCTION OF FOUR CARBON ALCOHOLS | | | |
| 8 | 11/741916 | 04/30/2007 | FERMENTIVE PRODUCTION OF FOUR CARBON ALCOHOLS | | | |
| 9 | 11/743220 | 05/02/2007 | SOLVENT TOLERANT MICROORGANISMS AND METHODS OF ISOLATION | | | |
| 10 | 11/761497 | 06/12/2007 | SOLVENT TOLERANT MICROORGANISMS AND METHODS OF ISOLATION | | | |
| 11 | 11/949793 | 12/04/2007 | SOLVENT TOLERANT MICROORGANISMS | | | |
| 12 | 12/018216 | 01/23/2008 | FERMENTIVE PRODUCTION OF FOUR CARBON ALCOHOLS | | | |
| 13 | 12/103844 | 04/16/2008 | FERMENTIVE PRODUCTION OF ISOBUTANOL USING HIGHLY ACTIVE KETOL-ACID REDUCTOISOMERASE ENZYMES | | | |
| 14 | 12/110526 | 04/28/2008 | METHOD FOR THE PRODUCTION OF ISOBUTANOL | | | |
| 15 | 12/110503 | 04/28/2008 | METHOD FOR THE PRODUCTION OF 1-BUTANOL | | | |
| 16 | 12/110510 | 04/28/2008 | METHOD FOR THE PRODUCTION OF 2-BUTANOL | | | |
| 17 | 12/111359 | 04/29/2008 | FERMENTIVE PRODUCTION OF FOUR CARBON ALCOHOLS | | | |
| 18 | 12/330530 | 12/09/2008 | PRODUCTION OF FOUR CARBON ALCOHOLS USING IMPROVED STRAIN | | | |
| 19 | 12/330531 | 12/09/2008 | IMPROVED STRAIN FOR BUTANOL PRODUCTION | | | |
| 20 | 12/330534 | 12/09/2008 | IMPROVED STRAIN FOR BUTANOL PRODUCTION | | | |
| 21 | 12/337736 | 12/18/2008 | KETOL-ACID REDUCTOISOMERASE USING NADH | | | |
| 22 | 61/168640 | 04/13/2009 | METHOD FOR PRODUCING BUTANOL USING EXTRACTIVE FERMENTATION | | | |
| 23 | 61/168645 | 04/13/2009 | METHOD FOR PRODUCING BUTANOL USING EXTRACTIVE FERMENTATION | | | |

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| 24 | 61/168642 | 04/13/2009 | METHOD FOR PRODUCING BUTANOL USING EXTRACTIVE FERMENTATION | | | |
| 25 | 12/430356 | 04/27/2009 | A BUTANOL DEHYDROGENASE ENZYME FROM THE BACTERIUM ACHROMOBACTER XYLOSOXIDANS | | | |
| 26 | 12/435530 | 05/05/2009 | IMPROVED YEAST STRAIN FOR PRODUCTION OF FOUR CARBON ALCOHOLS | | | |
| 27 | 12/472765 | 05/27/2009 | FERMENTIVE PRODUCTION OF FOUR CARBON ALCOHOLS | | | |
| 28 | 12/477942 | 06/04/2009 | ENHANCED PYRUVATE TO ACETOLACTATE CONVERSION IN YEAST | | | |
| 29 | 12/478389 | 06/04/2009 | A METHOD FOR PRODUCING BUTANOL USING TWO-PHASE EXTRACTIVE FERMENTATION | | | |
| 30 | 12/477946 | 06/04/2009 | DELETION MUTANTS FOR THE PRODUCTION OF ISOBUTANOL | | | |
| 31 | 61/226662 | 07/15/2009 | RECOVERY OF BUTANOL FROM A MIXTURE OF BUTANOL, WATER, AND AN ORGANIC EXTRACTANT | | | |
| 32 | 61/226659 | 07/15/2009 | RECOVERY OF BUTANOL FROM A MIXTURE OF BUTANOL, WATER, AND AN ORGANIC EXTRACTANT | | | |
| 33 | 61/231697 | 08/06/2009 | METHOD FOR PRODUCING BUTANOL USING EXTRACTIVE FERMENTATION | | | |
| 34 | 61/231699 | 08/06/2009 | METHOD FOR PRODUCING BUTANOL USING EXTRACTIVE FERMENTATION | | | |
| 35 | 61/231698 | 08/06/2009 | METHOD FOR PRODUCING BUTANOL USING EXTRACTIVE FERMENTATION | | | |
| 36 | 12/569103 | 09/29/2009 | ENHANCED IRON-SULFUR CLUSTER FORMATION FOR INCREASED DIHYDROXY-ACID DEHYDRATASE ACTIVITY IN LACTIC ACID BACTERIA | | | |
| 37 | 12/569168 | 09/29/2009 | ENHANCED DIHYDROXY-ACID DEHYDRATASE ACTIVITY IN LACTIC ACID BACTERIA | | | |
| 38 | 12/569069 | 09/29/2009 | INCREASED HETEROLOGOUS FE-S ENZYME ACTIVITY IN YEAST | | | |
| 39 | 12/569636 | 09/29/2009 | IDENTIFICATION AND USE OF BACTERIAL [2FE-2S] DIHYDROXY-ACID DEHYDRATASES | | | |

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| 40 | 12/569136 | 09/29/2009 | ENHANCED PYRUVATE TO 2,3-BUTANEDIOL CONVERSION IN LACTIC ACID BACTERIA | | | |
| 41 | 61/246717 | 09/29/2009 | IMPROVED FLUX TO ACETOLACTATE-DERIVED PRODUCTS IN LACTIC ACID BACTERIA | | | |
| 42 | 61/246709 | 09/29/2009 | IMPROVED YEAST PRODUCTION HOST CELLS | | | |
| 43 | 61/246844 | 09/29/2009 | FERMENTIVE PRODUCTION OF ISOBUTANOL USING HIGHLY EFFECTIVE KETOL-ACID REDUCTOISOMERASE ENZYMES | | | |
| 44 | 61/249792 | 10/08/2009 | IMPROVED BACTERIAL STRAINS FOR BUTANOL PRODUCTION | | | |
| 45 | 12/606410 | 10/27/2009 | CARBON PATHWAY OPTIMIZED PRODUCTION HOSTS FOR THE PRODUCTION OF ISOBUTANOL | | | |
| 46 | 12/617039 | 11/12/2009 | INCREASED PRODUCTION OF ISOBUTANOL IN YEAST WITH REDUCED MITOCHONDRIAL AMINO ACID BIOSYNTHESIS | | | |
| 47 | 12/617017 | 11/12/2009 | PRODUCTION OF ISOBUTANOL IN YEAST MITOCHONDRIA | | | |
| 48 | 61/263502 | 11/23/2009 | RECOVERY OF BUTANOL FROM A MIXTURE OF BUTANOL, WATER, AND AN ORGANIC EXTRACTANT | | | |
| 49 | 61/263509 | 11/23/2009 | RECOVERY OF BUTANOL FROM A MIXTURE OF BUTANOL, WATER, AND AN ORGANIC EXTRACTANT | | | |
| 50 | 61/263519 | 11/23/2009 | METHOD FOR PRODUCING BUTANOL USING EXTRACTIVE FERMENTATION WITH ELECTROLYTE ADDITION | | | |
| 51 | 61/263522 | 11/23/2009 | METHOD FOR PRODUCING BUTANOL USING EXTRACTIVE FERMENTATION WITH OSMOLYTE ADDITION | | | |
| 52 | 12/625593 | 11/25/2009 | IMPROVED STRAIN FOR BUTANOL PRODUCTION WITH INCREASED MEMBRANE UNSATURATED TRANS FATTY ACIDS | | | |
| 53 | 12/634753 | 12/10/2009 | SOLVENT TOLERANT MICROORGANISMS AND METHODS OF ISOLATION | | | |
| 54 | 12/637805 | 12/15/2009 | KETOL-ACID REDUCTOISOMERASE USING NADH | | | |

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| 55 | 12/643030 | 12/21/2009 | YEAST WITH INCREASED BUTANOL TOLERANCE INVOLVING CELL WALL INTEGRITY PATHWAY | | | |
| 56 | 12/643040 | 12/21/2009 | YEAST WITH INCREASED BUTANOL TOLERANCE INVOLVING HIGH OSMOLARITY/GLYCEROL RESPONSE PATHWAY | | | |
| 57 | 12/643019 | 12/21/2009 | YEAST WITH INCREASED BUTANOL TOLERANCE INVOLVING FILAMENTOUS GROWTH RESPONSE | | | |
| 58 | 61/288439 | 12/21/2009 | SYSTEMS AND METHODS FOR ALCOHOL RECOVERY AND CONCENTRATION OF STILLAGE BY-PRODUCTS | | | |
| 59 | 61/290639 | 12/29/2009 | EXPRESSION OF HEXOSE KINASE FOR ISOBUTANOL PRODUCTION | | | |
| 60 | 61/290636 | 12/29/2009 | IDENTIFYING ALCOHOL DEHYDROGENASES (ADH) USEFUL FOR FERMENTIVE PRODUCTION OF LOWER ALKYL ALCOHOLS | | | |
| 61 | 61/302695 | 02/09/2010 | PROCESS TO REMOVE PRODUCT ALCOHOL FROM A FERMENTATION BY VAPORIZATION UNDER VACUUM | | | |
| 62 | 61/305333 | 02/17/2010 | IMPROVED ACTIVITY OF FE-S CLUSTER REQUIRING PROTEINS | | | |
| 63 | 12/711308 | 02/24/2010 | YEAST WITH INCREASED BUTANOL TOLERANCE INVOLVING A MULTIDRUG EFFLUX PUMP GENE | | | |