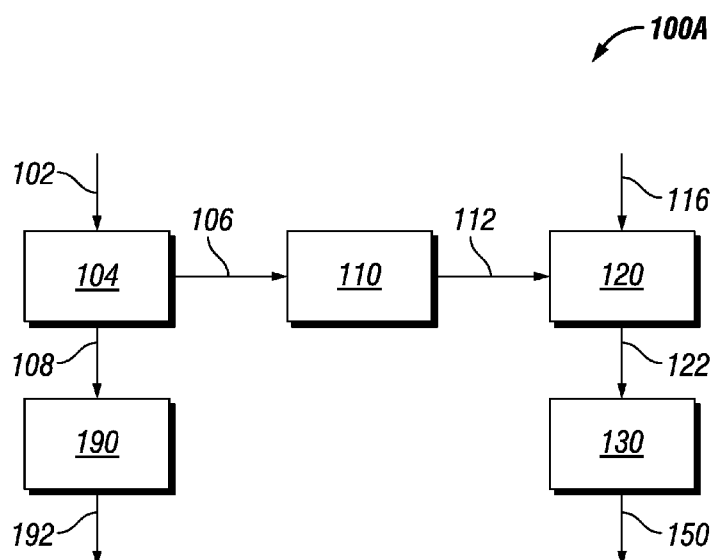




- (51) **International Patent Classification:**
C10L 1/00 (2006.01) *C10G 3/00* (2006.01)
- (21) **International Application Number:**
PCT/US2011/066161
- (22) **International Filing Date:**
20 December 2011 (20.12.2011)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
61/424,797 20 December 2010 (20.12.2010) US
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- (75) **Inventors/Applicants (for US only):** POWELL, Joseph Broun [US/US]; 10506 Normont Drive, Houston, Texas 77070 (US). CHHEDA, Juben Nemchand [IN/US]; 3323 McCue Road, Apt. 1843, Houston, Texas 77056 (US).
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- (81) **Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.
- (84) **Designated States (unless otherwise indicated, for every kind of regional protection available):** ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— with international search report (Art. 21(3))

[Continued on next page]

(54) **Title:** PROCESS TO PRODUCE BIOFUELS FROM BIOMASS**FIG. 1**

(57) **Abstract:** A method to produce biofuels from biomass is provide by contacting the biomass with an aqueous media to form an extracted biomass, separating at least a portion of an aqueous liquor from the extracted biomass thereby providing the aqueous liquor stream comprising soluble carbohydrates; contacting the aqueous liquor stream with a purification substrate effective to remove sulfur compounds and nitrogen compounds thereby producing a treated carbohydrate stream having less than 35% of the sulfur content and less than 35% of the nitrogen content of the untreated aqueous liquor feed, based on the untreated aqueous liquor stream, then contacting the treated carbohydrate stream directly with hydrogen in the presence of a hydrogenolysis catalyst to form a plurality of oxygenated intermediates; and processing at least a portion of the oxygenated intermediates to form a liquid fuel.



(88) Date of publication of the international search report:

27 December 2012

INTERNATIONAL SEARCH REPORT

International application No

PCT/US2011/066161

A. CLASSIFICATION OF SUBJECT MATTER
 INV. C10L1/00 C10G3/00
 ADD.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

C10L C10G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

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Date of the actual completion of the international search

9 July 2012

Date of mailing of the international search report

25/07/2012

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Rumbo, Angel

INTERNATIONAL SEARCH REPORT

International application No

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