

Title (en)

METHODS OF HYDROLYZING PRETREATED DENSIFIED BIOMASS PARTICULATES AND SYSTEMS RELATED THERETO

Title (de)

VERFAHREN ZUR HYDROLYSE VON VORBEHANDELTEN VERDICHETEN BIOMASSEPARTIKELN UND ZUGEHÖRIGE SYSTEME

Title (fr)

PROCÉDÉS D'HYDROLYSE DE PARTICULES DE BIOMASSE PRÉTRAITÉES ET DENSIFIÉES ET SYSTÈMES ASSOCIÉS

Publication

EP 2841588 A2 20150304 (EN)

Application

EP 13725503 A 20130426

Priority

- US 201213458830 A 20120427
- US 2013038452 W 20130426

Abstract (en)

[origin: WO2013163571A2] A method is provided in which pretreated and densified cellulosic biomass particulates can hydrolyzed at a high solids loading rate as compared with the solids loading rate of loose hydrolysable cellulosic biomass fibers. The resulting high concentration sugar-containing stream can be easily converted to biofuels or an entire suite of other useful bioproducts.

IPC 8 full level

C12P 19/02 (2006.01); **C12P 7/10** (2006.01); **C12P 19/14** (2006.01); **D21C 1/06** (2006.01); **D21C 1/10** (2006.01)

CPC (source: EP KR)

C12P 7/10 (2013.01 - EP KR); **C12P 19/02** (2013.01 - EP KR); **C12P 19/14** (2013.01 - EP KR); **D21C 1/06** (2013.01 - EP KR); **D21C 1/10** (2013.01 - EP KR); **D21C 5/005** (2013.01 - EP KR); **C12P 2201/00** (2013.01 - EP KR); **Y02E 50/10** (2013.01 - EP KR)

Citation (examination)

BENNY PALMQVIST ET AL: "Effect of mixing on enzymatic hydrolysis of steam-pretreated spruce: a quantitative analysis of conversion and power consumption", BIOTECHNOLOGY FOR BIOFUELS, BIOMED CENTRAL LTD, GB, vol. 4, no. 1, 11 May 2011 (2011-05-11), pages 10, XP021102043, ISSN: 1754-6834, DOI: 10.1186/1754-6834-4-10

Cited by

US10457810B2; US9644222B2; US10202660B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2013163571 A2 20131031; WO 2013163571 A3 20140306; AR 094993 A1 20150916; BR 112014026818 A2 20181127; BR 112014026818 B1 20210928; CA 2870758 A1 20131031; CA 2870758 C 20180116; CN 104284983 A 20150114; EP 2841588 A2 20150304; JP 2015516157 A 20150611; JP 6243899 B2 20171206; KR 101970859 B1 20190419; KR 20150028959 A 20150317; MX 2014012737 A 20150319; MX 356553 B 20180604; MY 174524 A 20200423; PH 12014502401 A1 20150112; SG 11201406820T A 20141127

DOCDB simple family (application)

US 2013038452 W 20130426; AR P130101439 A 20130426; BR 112014026818 A 20130426; CA 2870758 A 20130426; CN 201380022053 A 20130426; EP 13725503 A 20130426; JP 2015509190 A 20130426; KR 20147033096 A 20130426; MX 2014012737 A 20130426; MY PI2014002999 A 20130426; PH 12014502401 A 20141024; SG 11201406820T A 20130426