

Title (en)

PROCESS FOR UPGRADING BIOMASS DERIVED PRODUCTS USING LIQUID-LIQUID EXTRACTION

Title (de)

VERFAHREN ZUR AUFWERTUNG VON PRODUKTEN AUS BIOMASSE DURCH FLÜSSIG-FLÜSSIG-EXTRAKTION

Title (fr)

PROCÉDÉ DE VALORISATION DE PRODUITS DÉRIVÉS D'UNE BIOMASSE, PAR UTILISATION D'UNE EXTRACTION LIQUIDE-LIQUIDE

Publication

**EP 2994209 A4 20170125 (EN)**

Application

**EP 14794254 A 20140429**

Priority

- US 201313889105 A 20130507
- US 2014035804 W 20140429

Abstract (en)

[origin: WO2014182499A1] Disclosed is a process for the alteration of the ratio of the specific gravities of the oil and water phases resulting from the conversion of biomass to liquid products, the reduction of the conductivity and of metals of the product mixture, which each can aid in the removal of solids contained in the oil phase; and a liquid-liquid extraction method for partitioning desirable carbon containing compounds into the oil phase and undesirable carbon containing compounds into the water phase.

IPC 8 full level

**B01D 11/04** (2006.01)

CPC (source: EP)

**B01D 11/0492** (2013.01); **C11B 1/00** (2013.01)

Citation (search report)

- [I] US 2012190872 A1 20120726 - CRANFORD RICHARD J [US], et al
- [I] US 2012053357 A1 20120301 - KALE ANIKET [US]
- [I] WO 2005102936 A1 20051103 - BAYER MATERIALSCIENCE AG [DE], et al
- [I] M.J. CAMPOS MOLINA ET AL: "Cyclopentyl methyl ether: A green co-solvent for the selective dehydration of lignocellulosic pentoses to furfural", BIORESOURCE TECHNOLOGY, vol. 126, 1 December 2012 (2012-12-01), pages 321 - 327, XP055155008, ISSN: 0960-8524, DOI: 10.1016/j.biortech.2012.09.049
- [I] MOREAU ET AL: "Dehydration of fructose to 5-hydroxymethylfurfural over H-mordenites", APPLIED CATALYSIS A: GENERAL, ELSEVIER, AMSTERDAM, NL, vol. 145, no. 1-2, 8 October 1996 (1996-10-08), pages 211 - 224, XP022250817, ISSN: 0926-860X, DOI: 10.1016/0926-860X(96)00136-6
- See references of WO 2014182499A1

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

DOCDB simple family (publication)

**WO 2014182499 A1 20141113**; CA 2911456 A1 20141113; CA 2911456 C 20210427; EP 2994209 A1 20160316; EP 2994209 A4 20170125

DOCDB simple family (application)

**US 2014035804 W 20140429**; CA 2911456 A 20140429; EP 14794254 A 20140429