

Title (en)

METHOD FOR PRODUCING SOLUTIONS OF SUGARS AND ALCOHOLS FROM LIGNOCELLULOSIC BIOMASS WITH COMPLEMENTARY TREATMENT OF THE SOLID RESIDUE BY A HYDRATED INORGANIC SALT

Title (de)

VERFAHREN ZUR HERSTELLUNG VON LÖSUNGEN AUS ZUCKERN UND ALKOHOLEN AUS LIGNOCELLULOSEBIOMASSE MIT ERGÄNZENDER BEHANDLUNG DES FESTEN RÜCKSTANDS MITTELS HYDRIERTEM ANORGANISCHEM SALZ

Title (fr)

PROCEDE DE PRODUCTION DE SOLUTIONS DE SUCRES ET D'ALCOOLS A PARTIR DE BIOMASSE LIGNOCELLULOSIQUE AVEC TRAITEMENT COMPLEMENTAIRE DU RESIDU SOLIDE PAR UN SEL INORGANIQUE HYDRATE

Publication

EP 2931909 A1 20151021 (FR)

Application

EP 13808080 A 20131119

Priority

- FR 1203425 A 20121214
- FR 2013052792 W 20131119

Abstract (en)

[origin: WO2014091103A1] The invention relates to a method for producing solutions of sugars and alcohols from lignocellulosic biomass, comprising a pre-treatment, a step of enzymatic hydrolysis and alcoholic fermentation, a step of extracting the alcohol produced, a step of separating the solid residue, and optionally a step of washing and drying, followed by a step of baking the solid residue in a medium comprising at least one hydrated inorganic salt of formula $MX_n \cdot n'H_2O$, wherein M is a metal selected from the groups 1 to 13 of the periodic classification, X is an anion, n is a whole number between 1 and 6, and n' is between 0.5 and 12, enabling a solid fraction and a liquid fraction to be obtained, said solid fraction being then separated and subjected to either an enzymatic hydrolysis step, or steps of enzymatic hydrolysis and alcoholic fermentation.

IPC 8 full level

C12P 19/02 (2006.01); **C12P 7/10** (2006.01); **C12P 7/14** (2006.01); **C12P 19/14** (2006.01); **C13K 1/02** (2006.01)

CPC (source: EP US)

C12P 7/10 (2013.01 - EP US); **C12P 7/14** (2013.01 - EP US); **C12P 19/02** (2013.01 - EP US); **C12P 19/14** (2013.01 - EP US); **C13K 1/02** (2013.01 - EP US); **C12P 2201/00** (2013.01 - EP US); **C12P 2203/00** (2013.01 - US); **Y02E 50/10** (2013.01 - EP US); **Y02P 20/582** (2015.11 - EP US)

Citation (search report)

See references of WO 2014091103A1

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 2014091103 A1 20140619; BR 112015012397 A2 20170711; EP 2931909 A1 20151021; FR 2999604 A1 20140620; FR 2999604 B1 20170113; US 2015329888 A1 20151119

DOCDB simple family (application)

FR 2013052792 W 20131119; BR 112015012397 A 20131119; EP 13808080 A 20131119; FR 1203425 A 20121214; US 201314651811 A 20131119