Title (en)

LIQUID PHASE SEPARATION OF 2G SUGARS BY ADSORPTION ON A FAU ZEOLITE HAVING A SI/AL ATOMIC RATIO GREATER THAN 1.5

Title (de)

FLÜSSIGPHASENTRENNUNG VON 2G-ZUCKERN DURCH ADSORPTION AUF EINEM FAU-ZEOLITH MIT EINEM SI/AL-ATOMVERHÄLTNIS GRÖSSER ALS 1,5

Title (fr)

SÉPARATION EN PHASE LIQUIDE DES SUCRES 2G PAR ADSORPTION SUR UNE ZÉOLITHE DE TYPE FAU DE RATIO ATOMIQUE SI/AL SUPÉRIEUR À 1,5

Publication

EP 3990464 A1 20220504 (FR)

Application

EP 20732833 A 20200611

Priority

- FR 1907089 A 20190628
- EP 2020066154 W 20200611

Abstract (en)

[origin: WO2020260027A1] The invention relates to a process for separating glucose in the liquid phase from a mixture of C5 and C6 sugars comprising at least xylose and glucose, by adsorbing the glucose on a zeolite adsorbent which is based on FAU zeolite crystals with a Si/Al atomic ratio strictly greater than 1.5 and which comprises barium, in which process: - the mixture is brought into contact with the adsorbent in liquid chromatography to obtain a xylose-enriched liquid phase and a glucose-enriched adsorbed phase; - the xylose-enriched liquid phase is recovered, and the phase adsorbed on the adsorbent is desorbed by means of a desorption solvent in order to recover the glucose.

IPC 8 full level

C07H 1/06 (2006.01); **B01D 15/08** (2006.01); **B01J 29/08** (2006.01); **C07H 3/02** (2006.01)

CPC (source: EP US)

B01D 15/185 (2013.01 - EP); **B01D 15/265** (2013.01 - EP US); **C07H 1/06** (2013.01 - EP US); **C07H 3/02** (2013.01 - EP US); B01D 15/185 (2013.01 - US)

Citation (search report)

See references of WO 2020260027A1

Cited by

FR3142492A1; WO2024115096A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

FR 3097863 A1 20210101; **FR 3097863 B1 20230414**; BR 112021020811 A2 20220118; EP 3990464 A1 20220504; US 2022242895 A1 20220804; WO 2020260027 A1 20201230

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