

Title (en)

OPTIMIZED IBE FERMENTATION METHOD FOR UPGRADING ACETONE

Title (de)

OPTIMIERTES IBE-FERMENTATIONSVERFAHREN ZUR AUFARBEITUNG VON ACETON

Title (fr)

PROCEDE DE FERMENTATION IBE OPTIMISE POUR VALORISER L'ACETONE

Publication

**EP 4172348 A1 20230503 (FR)**

Application

**EP 21731545 A 20210617**

Priority

- FR 2006785 A 20200629
- EP 2021066513 W 20210617

Abstract (en)

[origin: WO2022002624A1] The present invention relates to a method for producing alcohols comprising: a. a step of IBE fermentation in at least one bioreactor (R1) in the presence of a microorganism of natural strain, and fed at least by an aqueous solution (1) of C5 and/or C6 sugars and a recycled acetone stream (3), to produce fermentation gases and a fermentation must containing fermentation products; b. a step of recovering the fermentation products, to obtain a stream of fermentation products (2); c. a step of treating the stream of fermentation products comprising a section for separating the acetone in order to produce at least one acetone effluent (3) and an aqueous effluent of alcohols (4); d. a step of recycling at least one fraction of the acetone effluent (3) from step c) to step a).

IPC 8 full level

**C12P 7/04** (2006.01); **C12P 7/06** (2006.01); **C12P 7/16** (2006.01)

CPC (source: EP KR US)

**C12P 7/04** (2013.01 - EP KR); **C12P 7/06** (2013.01 - US); **C12P 7/065** (2013.01 - EP KR); **C12P 7/16** (2013.01 - EP KR US); **Y02E 50/10** (2013.01 - EP KR)

Citation (search report)

See references of WO 2022002624A1

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

**FR 3111914 A1 20211231**; **FR 3111914 B1 20220715**; CN 115605601 A 20230113; EP 4172348 A1 20230503; JP 2023532695 A 20230731; KR 20230028507 A 20230228; US 2023265464 A1 20230824; WO 2022002624 A1 20220106

DOCDB simple family (application)

**FR 2006785 A 20200629**; CN 202180039913 A 20210617; EP 2021066513 W 20210617; EP 21731545 A 20210617; JP 2022580764 A 20210617; KR 20237002888 A 20210617; US 202118013427 A 20210617