Title (en)
METHOD FOR CONVERTING STARCH-CONTAINING (RESIDUAL) STREAMS INTO HIGH-QUALITY PROTEINS

Title (de)
VERFAHREN ZUR UMWANDLUNG VON STÄRKEHALTIGEN (REST)STRÖMEN IN HOCHQUALITATIVE PROTEINE

Title (fr)
PROCÉDÉ DE CONVERSION DE FLUX CONTENANT DE L'AMIDON (RÉSIDUELS) EN PROTÉINES DE HAUTE QUALITÉ

Publication
EP 3902920 A1 20211103 (EN)

Application
EP 19839685 A 20191226

Priority
• BE 201805947 A 20181226
• IB 2019061373 W 20191226

Abstract (en)
[origin: WO2020136600A1] A method for the conversion of starch -containing (residual) streams to high- quality proteins, by means of the following steps: - the conversion of the starch- containing (residual) products (2) in a first and anaerobic fermentation (6), with formation of fatty acids, sugars and oligosaccharides; - the conversion of the reaction product of the first and anaerobic fermentation (6) into a protein concentrate (24) in a second, but now aerobic fermentation (20), by means of a culture of micro-organisms (18); - the optional separation of the microbial mass from the obtained reaction product (21), which mass comprises a concentrate of cellular protein fragments (24) for use as fish feed, cattle feed, pet food or in food for human consumption.

IPC 8 full level
A23K 10/16 (2016.01); **C02F 3/34** (2006.01); **C12N 1/20** (2006.01); **C12N 1/36** (2006.01); **C12P 21/00** (2006.01); **C12P 39/00** (2006.01); **C12Q 1/04** (2006.01)

CPC (source: EP)
A23J 1/00 (2013.01); **A23K 10/12** (2016.05); **A23K 50/10** (2016.05); **A23K 50/40** (2016.05); **A23L 33/135** (2016.07); **C12M 23/58** (2013.01); **C12N 1/20** (2013.01); **C12N 1/36** (2013.01); **C12P 21/00** (2013.01); **C12P 39/00** (2013.01); C02F 3/341 (2013.01)

Citation (search report)
See references of WO 2020136600A1

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 2020136600 A1 20200702; BE 1026952 A1 20200730; BE 1026952 B1 20200804; EP 3902920 A1 20211103; NL 2024582 B1 20200723

DOCDB simple family (application)
IB 2019061373 W 20191226; BE 201805947 A 20181226; EP 19839685 A 20191226; NL 2024582 A 20191226