

Title (en)
CENTRIFUGAL SEPARATOR AND CENTRIFUGAL SEPARATION METHOD

Title (de)
ZENTRIFUGALER ABSCHIEDER UND VERFAHREN ZUR ZENTRIFUGALEN ABSCHIEDUNG

Title (fr)
SÉPARATEUR CENTRIFUGE ET PROCÉDÉ DE SÉPARATION CENTRIFUGE

Publication
EP 3482831 A4 20191225 (EN)

Application
EP 17824096 A 20170628

Priority
• JP 2016133665 A 20160705
• JP 2017023756 W 20170628

Abstract (en)
[origin: EP3482831A1] The present invention provides a centrifugal separator including a cylindrical basket (2) that has a body part provided with a filtration screen (2a) and is configured to rotate about an axis of the basket (2) and a pushing plate (7) that is accommodated inside the basket (2) and is provided to be rotatable integrally with basket and movable relatively in an axis (O) direction of the basket (2). When a cake, which is filtered by the filtration screen (2a) from a substance to be processed supplied inside the basket (2), is discharged by pushing the cake to an open end (2b) side of the basket (2) by the pushing plate (7), a relative movement speed between the pushing plate (7) and the basket (2) in the axis (O) direction is set such that a relative movement speed in a direction where an interval (D) between the pushing plate (7) and an open end (2b) of the basket (2) in the axis (O) direction becomes large is lower than a relative movement speed in a direction where the interval (D) becomes small.

IPC 8 full level
B04B 3/02 (2006.01); **B04B 11/02** (2006.01); **B04B 11/06** (2006.01); **B04B 13/00** (2006.01)

CPC (source: EP KR)
B04B 3/02 (2013.01 - EP KR); **B04B 11/02** (2013.01 - EP KR); **B04B 11/06** (2013.01 - EP KR); **B04B 13/00** (2013.01 - EP)

Citation (search report)
• [XA] US 2006175245 A1 20060810 - GERTEIS JOHANNES [DE], et al
• [A] US 3613892 A 19711019 - ZILLER FRITZ
• [A] JP 2004351411 A 20041216 - FERRUM AG
• See references of WO 2018008490A1

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)
EP 3482831 A1 20190515; **EP 3482831 A4 20191225**; CN 109070100 A 20181221; CN 109070100 B 20210319; JP 2018001116 A 20180111; JP 6618433 B2 20191211; KR 102325787 B1 20211112; KR 20190025540 A 20190311; TW 201805067 A 20180216; TW I709437 B 20201111; WO 2018008490 A1 20180111

DOCDB simple family (application)
EP 17824096 A 20170628; CN 201780023924 A 20170628; JP 2016133665 A 20160705; JP 2017023756 W 20170628; KR 20187029710 A 20170628; TW 106122085 A 20170630