

Title (en)

METHOD FOR CONTINUOUSLY CLARIFYING A FLOWABLE SUSPENSION WITH A CENTRIFUGE

Title (de)

VERFAHREN ZUR KONTINUIERLICHEN KLÄRUNG EINER FLIESSFÄHIGEN SUSPENSION MIT EINER ZENTRIFUGE

Title (fr)

PROCÉDÉ D'ÉPURATION EN CONTINU D'UNE SUSPENSION FLUIDE À L'AIDE D'UNE CENTRIFUGEUSE

Publication

**EP 3060351 B1 20200311 (DE)**

Application

**EP 14786883 A 20141020**

Priority

- DE 102013111586 A 20131021
- EP 2014072435 W 20141020

Abstract (en)

[origin: CA2925202A1] A method for continuously clarifying a flowable suspension (P) with a centrifuge, in particular a discontinuously solid-discharging - self-discharging - separator, which has a rotatable drum with a vertical axis of rotation, a feed for the suspension (P) to be clarified and at least one liquid discharge for continuously discharging at least one clarified liquid phase (L), and discontinuously openable solid-discharge openings for discontinuously discharging the solid phase (S), comprises the following steps: a) measuring one or more of the suspension parameters mass, mass of solid substance in the suspension, mass flow, temperature, density, cumulative density; and b) initiating a time-limited discharge of solid substance as a result of a repeated determination on the basis of step a) in the event of or after the exceeding of a limit value.

IPC 8 full level

**B04B 1/14** (2006.01); **B04B 11/04** (2006.01)

CPC (source: EP US)

**B04B 1/14** (2013.01 - EP US); **B04B 11/04** (2013.01 - EP US); **B04B 11/05** (2013.01 - US)

Citation (opposition)

Opponent : Alfa Laval Corporate AB

- DE 2814523 A1 19791018 - BATYREV
- US 5318500 A 19940607 - KELLEY JAMES J [US], et al
- EP 2644278 A1 20131002 - ALFA LAVAL CORP AB [SE]
- WO 2011093784 A1 20110804 - ALFA LAVAL CORP AB [SE], et al
- GB 1587853 A 19810408 - ZOBLIN P V, et al
- DE 1186414 B 19650128 - WESTFALIA SEPARATOR AG
- US 4768384 A 19880906 - FLECKEN PETER [DE], et al
- WO 2011083036 A2 20110714 - ENDRESS & HAUSER MESTECHNIK GMBH & CO KG [DE], et al
- EP 1798536 A1 20070620 - MICRO MOTION INC [US]
- EP 0831306 A1 19980325 - OVAL CORP [JP]
- EP 1840537 A2 20071003 - MICRO MOTION INC [US]
- HYLTON T. D.: "An evaluation of a dual Coriolis meter system for in-line monitoring of suspended solids concentrations in radioactive slurries", CHEMICAL TECHNOLOGY DIVISION, 1 September 2000 (2000-09-01), pages 1 - 56, XP055954302
- ANONYMOUS: "Badger Meter Europa", CORIOLIS, 1 January 2000 (2000-01-01), pages 1 - 8, XP055954303

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)

**DE 102013111586 A1 20150423**; CA 2925202 A1 20150430; CA 2925202 C 20210601; CN 105658337 A 20160608; EP 3060351 A1 20160831; EP 3060351 B1 20200311; US 10022729 B2 20180717; US 2016271625 A1 20160922; WO 2015059089 A1 20150430

DOCDB simple family (application)

**DE 102013111586 A 20131021**; CA 2925202 A 20141020; CN 201480057793 A 20141020; EP 14786883 A 20141020; EP 2014072435 W 20141020; US 201415030223 A 20141020