

Title (en)
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Title (de)
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Title (fr)
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Publication
EP 3930910 A1 20220105 (DE)

Application
EP 19718724 A 20190424

Priority
• EP 2019054662 W 20190226
• EP 2019060456 W 20190424

Abstract (en)
[origin: WO2020173545A1] The invention relates to a separator (1) for separating a flowable suspension (S) in a centrifugal field into at least two flowable phases (HP, LP) of different densities, said separator comprising the following: a) a housing (10) which is stationary during operation and is designed in the manner of a tank which has at least two openings; b) a drum (20) which is located inside the housing (10) and can be rotated about an axis of rotation, said drum having an axis of rotation (D) and at least one opening; c) wherein a gap is formed at least in sections or continuously between the drum (20) and the housing (10); d) a support and drive device (30) which has at least two support and/or drive units, by means of which the drum (20) can be kept suspended inside the housing (10), supported, and/or set in rotation; e) wherein one of the support and/or drive units is designed as a first magnetic bearing which is designed at least to axially support the drum (20) and to keep same suspended; f) wherein at least one other of the support and/or drive units is designed to axially support the drum (20).

IPC 8 full level
B04B 9/12 (2006.01); **B04B 1/08** (2006.01); **B04B 7/02** (2006.01); **B04B 9/04** (2006.01); **B04B 11/02** (2006.01)

CPC (source: EP KR US)
B04B 1/08 (2013.01 - EP KR US); **B04B 1/12** (2013.01 - US); **B04B 7/02** (2013.01 - EP KR US); **B04B 9/04** (2013.01 - EP KR US); **B04B 9/12** (2013.01 - EP KR US); **B04B 11/02** (2013.01 - EP KR US); **B04B 15/08** (2013.01 - US)

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 2020173545 A1 20200903; BR 112021011535 A2 20210831; CA 3123698 A1 20200903; CN 113365735 A 20210907; CN 113453803 A 20210928; EP 3930909 A1 20220105; EP 3930910 A1 20220105; JP 2022521124 A 20220406; JP 2022528217 A 20220609; JP 7299983 B2 20230628; JP 7361123 B2 20231013; KR 102650703 B1 20240322; KR 20210126550 A 20211020; KR 20210129182 A 20211027; MX 2021009148 A 20210910; SG 11202108236T A 20210929; US 2022134357 A1 20220505; US 2022152631 A1 20220519; WO 2020173578 A1 20200903

DOCDB simple family (application)
EP 2019054662 W 20190226; BR 112021011535 A 20190226; CA 3123698 A 20190226; CN 201980089766 A 20190424; CN 201980092613 A 20190226; EP 19708441 A 20190226; EP 19718724 A 20190424; EP 2019060456 W 20190424; JP 2021532310 A 20190424; JP 2021538093 A 20190226; KR 20217021458 A 20190424; KR 20217030697 A 20190226; MX 2021009148 A 20190226; SG 11202108236T A 20190226; US 201917431851 A 20190424; US 201917432597 A 20190226