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Application  
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Abstract (en)  
[origin: WO2019101624A1] The invention relates to a separator for separating a flowable suspension (S) in a centrifugal field into at least two flowable phases (HP, LP) of different density, said separator comprising the following: a) a housing (10), which is stationary during operation and is designed as a tank having at least three openings, said openings comprising an inlet (103) for an inflowing suspension and two outlets (104, 105) vertically spaced apart from each other for flowable phases (HP, LL) of different density, with which outlets annular spaces (107, 108), respectively, of the housing (10) are associated, b) a rotatable drum (20) arranged within the housing (10) and having a vertical axis of rotation (d), which drum likewise has three openings, which correspond to the openings of the housing from a), c) a multi-part support and drive device (30), by means of which the drum is kept suspended within the housing, is supported and is set into rotation, an air gap (LS) being formed vertically between the two outlets (104, 105) and annular spaces (107, 108) of the housing during operation, which air gap is not filled with one of the outflowing phases (HP, LP) during operation when the drum (20) is rotating.

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