

Title (en)
SEPARATOR INSERT AND SEPARATOR

Title (de)
SEPARATOREINSATZ UND SEPARATOR

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INSERT DE SÉPARATEUR ET SÉPARATEUR

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Abstract (en)
[origin: WO2022033953A1] The invention relates to a separator insert for a separator, which is designed for separating a flowable suspension (S) into at least two flowable phases (LP, HP) of different densities in a centrifugal field, and which comprises the following: a housing (1) which is stationary during operation and which is designed in the form of a container that is closed apart from a plurality of openings, wherein these openings are designed at least as follows: as a supply opening (8) for an in-flowing suspension, formed in a first axial boundary wall (6) of the housing (1), and as two openings for the discharge (10, 34) of respective flowable phases of different densities (LP, HP) in an outer casing of the housing (1) and a second axial boundary wall (7) of the housing, or as two openings for the discharge (24, 34) of respective flowable phases of differing densities (LP, HP) in the first and the second axial boundary wall (6, 7) of the housing (1); a rotor arranged within the housing (1) and which can be rotated about an axis of rotation (D) and having a drum (3), which also has openings; and at least two rotor units (4b, 5b) for magnetic bearing units (4, 5) at two axially spaced apart points on the rotor (2) with the drum (3), with which the rotor (2) with the drum (3) can be held in a suspended state, can be rotationally mounted and can be made to rotate within the housing during operation.

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