

SEPARATOR INSERT AND SEPARATOR

Abstract

5 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 differing 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 multiple openings, wherein these openings are designed as
10 follows: as a supply opening (8) for an in-flowing suspension in a first axial boundary wall (6) of the housing (1), as two outlets (10, 11) for flowable phases of differing densities (LP, HP) in an outer casing of the housing (1), and as a recirculation inlet (9) in a second axial boundary wall (7) of the housing (1); a rotor arranged within the housing (1) and which can rotate about an axis of rotation (D) and having a drum (3),
15 which also has multiple openings, wherein a separation means is arranged in the drum (3); 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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Figure 1