

Separator

Abstract

The invention relates to a separator, in particular a self-emptying separator, for centrifugal separation of a flowable product (P) into at least one liquid phase (L) and at least one solid phase (S), said separator having a rotatable centrifuge drum (1) with a vertical rotation axis (D), said drum having a separation chamber (6) in which a disc stack (7) is preferably provided, and having solids discharge openings (11) and an emptying mechanism with a single piston valve (10), which is designed to open and to close the solids discharge openings (11) discontinuously, a control assembly (12) being provided for the emptying mechanism, characterised in that the centrifuge drum (1) has, on its circumference, a first set of solids discharge openings (11a) and a second set of solids discharge openings (11b), the first set of solids discharge openings (11a) and the second set of solids discharge openings (11b) being arranged at two different axial heights on the circumference of the centrifuge drum (1) and thus being vertically distanced from one another, the two sets of solids discharge openings being openable and closable by the single piston valve (10).

Fig. 1a