

Title (en)
SEPARATOR WITH DIRECT DRIVE

Title (de)
SEPARATOR MIT DIREKTANTRIEB

Title (fr)
SÉPARATEUR DOTÉ D'UN ENTRAÎNEMENT DIRECT

Publication
EP 2916961 A2 20150916 (DE)

Application
EP 13789760 A 20131106

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Abstract (en)
[origin: CA2889766A1] The invention relates to a separator (1) having the following: a centrifugal drum (2) with a vertical rotational axis (D); a drive spindle (5) for the centrifugal drum (2), said spindle being rotatably mounted in a drive housing (4), which surrounds or forms a drive compartment (28), by means of a neck bearing (6) and a base bearing (7); and an electric drive motor (20) which has a stator (22) and a rotor (21), said rotor (21) being arranged in the drive compartment (28) of the drive housing (4) directly on the drive spindle (5) in the axial region between the base bearing (7) and the neck bearing (6), wherein the stator (22) is further directly supported in the drive housing (4) and an air gap is formed between the stator (22) and the rotor (21). The stator (22) and the rotor (21) are arranged between the neck bearing (6) and the base bearing (7) in an open manner in the drive compartment (28), which is otherwise completely or substantially closed towards the outside. A lubricating system is provided for lubricating the neck bearing (6) and the base bearing (7) in particular, said system being entirely or partly integrated directly into the drive compartment (28). Furthermore, at least one or more of the additional features are implemented: a coolant circuit is provided for a flowable coolant, said circuit being entirely or partly integrated directly into the drive housing (4), and the stator (22) has a flange portion (25) for contacting, in particular resting on, a corresponding collar portion (26) of the drive housing.

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Cited by
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