

Separator Having Direct Drive

Abstract

Separator (1), comprising: a unit which rotates during operation and which has a drum (2) and a drive spindle (3), a drive motor (10) designed as an electric motor for rotating the drive spindle and having a stator (20) and a rotor (21), wherein the rotor (21) is arranged on the drive spindle (3) and the stator (20) is radially spaced apart from the rotor (21) in a drive housing (11) which does not rotate during operation, wherein the stator has at least one or multiple winding heads (20a, 20b), characterized in that, at least one chamber (K1, K2) is formed on at least one of the winding heads (20a, 20b), in which chamber (K1, K2) a coolant film or a coolant bath is formed during operation, so that this winding head (20a, 20b) is cooled with coolant during operation, wherein the coolant in the respective chamber (K1, K2) is a lubricating oil and wherein the lubricating oil is used on the one hand for lubricating one or more bearings (4, 5) of the drive spindle and on the other hand for cooling the one or the multiple winding heads (20a, 20b).

Figure 1