



Abstract (cf. Fig. 3)

The invention relates to a method for separating a multi-phase mixture (50) into at least one liquid phase (54) and one dry phase (52) with a specified dry matter concentration. A decanting centrifuge (100) with an annular immersion disk (14) and a liquor weir arranged at the end face of the centrifuge drum (20) are used.

After the start-up of the centrifuge drum (20) and setting a start-up tank depth, a multi-phase mixture (50) is introduced into the rotating centrifuge drum (20). The dry phase (52) and the liquid phase (54) are drawn off. The tank depth, and thus the fluid level in the centrifuge drum, is controlled by the liquor weir until a specified nominal dry matter concentration is reached.

According to the invention, the tank depth is continuously compared to a tolerance range. During the process, the weir is preferably positioned such that a reaction to concentration changes in the feed is possible in both directions. Furthermore, during the process, the speed of the centrifuge is lowered incrementally and the weir position adjusted, such that the dry phase concentration remains constant. Reducing the speed results in energy savings.

