

Abstract

Method for producing dispersions of a defined particle size, a liquid mixture dispersion (Dm) being continuously separated into a coarse fraction dispersion (Dg) and a fine fraction dispersion (Df), comprising the following steps: A) continuously or discontinuously producing the mixed dispersion (Dm) in a pre-dispersion process, in which a particle mixture (Pm) of a disperse phase is mixed with a continuous liquid phase to form the mixed dispersion (Dm) and is intermediately stored in at least one mixing tank (Tm), B) introducing the mixed dispersion (Dm) from the pre-dispersion process into at least one continuously operating separating device (VT), C) separating the particle mixture (Pm) of the mixed dispersion (Dm) in the at least one separating device (VT) into coarse particles (Pg) of the coarse fraction dispersion (Dg) and into fine particles (Pf) of the fine fraction dispersion (Df) in accordance with a threshold value for the particle size, D) discharging the fine fraction dispersion (Df) from the at least one separating device (VT) into at least one storage tank (Tv), E) discharging the coarse fraction dispersion (Dg) from the at least one separating device (VT) into at least one disperser (DP), F) crushing the coarse particles (Pg) of the coarse fraction dispersion (Dg) in the at least one disperser (DP) into a dispersed particle mixture (PDm) and returning the dispersed particle mixture (PDm) into the at least one mixing tank (Tm), to the pre-dispersion process, and G) mixing the dispersed particle mixture (PDm) returned to the pre-dispersion process with the mixed dispersion (DM) produced in the pre-dispersion process in the at least one mixing tank (Tm).

(Figure 2)

25

30