

Title (en)

METHOD AND DEVICE FOR MECHANICALLY SEPARATING A DISPERSE SYSTEM

Title (de)

VERFAHREN UND VORRICHTUNG ZUM MECHANISCHEN TRENNEN EINES DISPERSEN SYSTEMS

Title (fr)

PROCEDE ET DISPOSITIF POUR LA SEPARATION MECANIQUE D'UN SYSTEME DISPERSE

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Application

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Abstract (en)

[origin: WO0025932A1] The invention relates to a method for mechanically separating a disperse system into two or more disperse systems, said systems having different features, in a centrifugal separator, and to a device suited for carrying out the inventive method. Based on the disadvantages of the prior art, the aim of the invention was to create a method of the type in question with which it is possible, without large structural changes, to be able to vary the degree of solids recovery independent of fluid flow rate to a large extent and to influence the size of separation and the sharpness of separation. To these ends, the partial streams (7, 8) are partitioned to feed channels (1, 2) which, in the centrifugal separator, differ in the cross-sectional areas thereof at the points of entry (S1, S2). During the partitioning of the partial streams to more than two tangential feed channels (1, 2, 12, 13), the cross-sectional areas (2) and (13) or (1) and (12) are formed from the sum of the cross-sectional areas of the feed channels which are in contact with the respective partial stream (7 or 8), and therefore the sums of the cross-sectional areas of the respective partial streams (7 or 8) differ at the points of entry (S2, S13 or S1, S12) into the centrifugal separator.

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