

Title (en)  
Centrifuge.

Title (de)  
Zentrifuge.

Title (fr)  
Centrifugeuse.

Publication  
**EP 0520321 B1 19950920 (DE)**

Application  
**EP 92110303 A 19920617**

Priority  
DE 4120565 A 19910621

Abstract (en)  
[origin: US5222935A] Centrifuge for the separation of a suspension into a solids phase and at least one liquid phase, especially decanter centrifuge with separator following in alignment, full-jacket screw centrifuge or the like with screw (2) rotating at differential speed of rotation from its jacket (1), the helices (4) of which fit close against the course of the inner surface of the jacket, which narrows conically over at least some of its axial section looking toward the solids outlet (13) in particular, and between which, the hub (3) of the screw, and the jacket (1) is left the separation section (6), into which the suspension is injected, especially through a cavity (10 & 11 or 10 & 12) in the hub (3) of the screw. To increase the quality and quantity of the separation and hence save time and material, longish structures (7 or 8) like threads or bristles are provided at least over a partial section of the longitudinal extent of the hub (3) of the screw distributed around its circumference, yielding transversely to their longitudinal extent to the attack of coarser solids particles and centrifugally straightening more or less radially out from the hub and extending into the separation section (6) subject to the action of centrifugal force as the centrifuge operates.

IPC 1-7  
**B04B 1/20**

IPC 8 full level  
**B04B 1/20** (2006.01)

CPC (source: EP US)  
**B04B 1/20** (2013.01 - EP US); **B04B 2001/205** (2013.01 - EP US)

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