

Title (en)  
DECANTER CENTRIFUGE.

Title (de)  
DEKANTERZENTRIFUGE.

Title (fr)  
SEPARATEUR CENTRIFUGE.

Publication  
**EP 0520010 B1 19941019**

Application  
**EP 91906597 A 19910312**

Priority  
• DK 65190 A 19900313  
• DK 9100075 W 19910312

Abstract (en)  
[origin: WO9113686A1] A decanter centrifuge comprises a drum (1) with a conveyor (2) containing an inlet (4). The liquid to be separated flows in a jet centrally into the inlet (4) towards an end wall (11), at which the liquid is radially distributed and flows axially onwards towards the second end wall (13) through an area of the inlet (4) free of members imparting an angular velocity to the liquid. The inlet (4) is provided with inlet apertures (6) positioned on a radius larger than the radius to the overflow edge (9) at the liquid discharge. The design of the inlet (4) implies that the free liquid surface in the inlet during operation is drawn far towards the axis of the drum, thereby causing excess energy supplied to the liquid during acceleration to the angular velocity of the conveyor (2) to be dissipated in the comparatively thick liquid layer before the liquid discharges into the separation space (7) through the inlet apertures (6).

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

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

CPC (source: EP)  
**B04B 1/20** (2013.01); **B04B 2001/2033** (2013.01)

Cited by  
US7229399B2; WO2004110637A1

Designated contracting state (EPC)  
DE SE

DOCDB simple family (publication)  
**WO 9113686 A1 19910919**; DE 69104715 D1 19941124; DE 69104715 T2 19950504; DK 170967 B1 19960409; DK 65190 A 19910914; DK 65190 D0 19900313; EP 0520010 A1 19921230; EP 0520010 B1 19941019; JP 2987519 B2 19991206; JP H05505557 A 19930819

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