

Title (en)  
ADJUSTABLE BARRIER PLATE FOR A SOLID BOWL SCREW CENTRIFUGE

Publication  
**EP 0186761 B1 19901017 (DE)**

Application  
**EP 85114275 A 19851108**

Priority  
DE 3446166 A 19841218

Abstract (en)  
[origin: EP0186761A2] 1. Adjustable weir plate (17) for fully encased screw centrifuges, the outer cover (16) of which, located at the liquid outlet end, has a series of discharge openings (15) which are arranged at equal radial spacings from the rotation axis (20) of the casing (11) and are uniformly distributed over the circumference, each of which is covered, in a radially outer region, by a weir plate (17), which are adjustably secured, by means of at least one screw (18) or similar connecting element inserted in a corresponding recess in the plate, in the vicinity of the associated discharge opening (15), in radially different covering positions, and the overflow edges (21, 22) of which, facing the rotation axis (20) of the casing (11), overlapping the associated discharge openings (15), define the associated weir diameter in the particular covering position, which is selected to be equal for all the weir plates (17), characterised by at least one adjusting member (19) rotatably mounted about an axis (24) and acting on a contact surface (25) of the protective plate (17), eccentrically with respect to the axis (24), said adjusting member (19) being adapted for adjusting, as a function of the position of rotation thereof, in the radial direction viewed from the rotation axis (20) of the casing (11), selectively different spacings between the rotation axis (20) and the overflow edge (21, 22) of the protective plate in which said plate (17) can be fixed by means of at least one associated screw (18) or similar connecting element, and in that markings are provided on the adjusting member (19) to show the adjustment positions (0-10).

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

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

CPC (source: EP)  
**B04B 1/20** (2013.01); **B04B 2001/2083** (2013.01)

Citation (examination)  
Merkblatt "Einstellbare Wehrdurchmesser" J-S. 3-1 der Firma Flottweg, Vilsbiburg; Prospekt PC 40631T/7905 der Firma Alfa-Laval, Dänemark; Prospekt 1280-0150 der Firma Swaco

Cited by  
US7326169B2; GB2513358A; US5257968A; US10105716B2; WO9221445A1; WO2014117760A1

Designated contracting state (EPC)  
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**EP 0186761 A2 19860709; EP 0186761 A3 19871223; EP 0186761 B1 19901017**; DE 3446166 A1 19860626; DE 3446166 C2 19870402; DE 3580157 D1 19901122; DK 169466 B1 19941107; DK 584985 A 19860619; DK 584985 D0 19851217

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