

Title (en)

Horizontal centrifuge for an optimum oil extraction

Title (de)

Horizontale Zentrifuge für eine optimale Ölextraktion

Title (fr)

Centrifugeuse horizontale pour l'extraction optimale d'huile

Publication

EP 0785029 A1 19970723 (EN)

Application

EP 97830001 A 19970109

Priority

- IT RM960033 A 19960118
- IT RM960314 A 19960508

Abstract (en)

A horizontal centrifuge comprising a plurality of water outlet nozzles (1) which cross the inlet head (16) disposed on the oily slurry supply side, a plurality of oil outlet radial nozzles (15) arranged on the drum (3), a plurality of oil outlet radial nozzles (12) which are located downstream of the circular barrier (13) created by the supplied slurry, and a plurality of baffle plates (2, 7, 9) whose function is to form an uninterrupted oil column which does not mix with water and solids. In particular, the baffle plate (2) arranged upstream prevents oil to be discharged with water, and the central baffle plate (7) lets the oil pass through its apertures (21) and directs the muds towards the wall of the drum (3), separating them from the oil column (8) and moving them away from the inlet apertures of the nozzles (12). <IMAGE>

IPC 1-7

B04B 1/20

IPC 8 full level

B04B 1/20 (2006.01)

CPC (source: EP)

B04B 1/20 (2013.01); **C11B 1/06** (2013.01); **B04B 2001/2041** (2013.01)

Citation (search report)

- [YP] EP 0704248 A1 19960403 - NUOVA MAIP MACCHINE AGRIC [IT]
- [Y] EP 0140672 A2 19850508 - BROADBENT & SONS LTD THOMAS [GB]
- [A] EP 0574364 A1 19931215 - RAPANELLI FIORAVANTE SPA [IT]
- [A] DE 3202294 C1 19830421 - WESTFALIA SEPARATOR AG
- [A] EP 0018474 A2 19801112 - HIGH ROBERT EDWARD

Cited by

CN110639239A; US7156801B2; EP1260273A1; CN102600992A; GR990100394A; US7229399B2; DE19952804A1; DE19952804C2; GR20080100085A; US2012149867A1; CN102824966A; US8557297B2; ES2207391A1; GR20020100162A; US6749552B1; US7074173B2; US7056273B2; US9901936B2; WO2005084814A1; WO2013016952A1; US9068142B2; US9167832B2; US9480273B2; US9907321B2; US10499673B2; US10701954B2

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