

Title (en)

Centrifuge for oil extraction from oily slurries working without addition of drinkable water

Title (de)

Ohne Zugabe von Trinkwasser arbeitende Zentrifuge zum Abscheiden von Öl aus Ölschlämmen

Title (fr)

Centrifugeuse pour la séparation d'huile de suspensions huileuses, travaillant sans addition d'eau potable

Publication

EP 0574364 B1 19970122 (EN)

Application

EP 93830235 A 19930527

Priority

IT RM920439 A 19920611

Abstract (en)

[origin: EP0574364A1] Horizontal centrifuge comprising a drum (1), a helicoid screw (2, 2a) coaxial to the drum (1) and arranged inside the latter, two closure heads (14, 15) located at the ends of the drum (1) and provided with nozzles (4, 6) for discharging to the outside oil and water/solid remainders respectively and an inlet tube (3) for the oily slurry ending inside the hollow body (2a) forming the helicoid screw (2, 2a). The horizontal centrifuge is provided with a plurality of diaphragms (11, 12, 13) which allow an almost perfect separation of the columns formed by the oil and water/solid remainders. The nozzles (4) providing the way out for the oil are adjustable and allow to maintain constant the height of the oil column inside the drum (1). The independent rotary motion of the drum (1) and the helicoid screw (2, 2a) is performed by means of an epicyclic motor reducer (7). <IMAGE>

IPC 1-7

B04B 1/20

IPC 8 full level

B04B 1/20 (2006.01)

CPC (source: EP)

B04B 1/20 (2013.01); **B04B 2001/2041** (2013.01); **B04B 2001/2083** (2013.01)

Cited by

CN105170342A; CN106475234A; KR100398168B1; CN103008119A; EP0785029A1; KR101224309B1; CN114901398A; EP0845296A1; US7549957B2; US2013034643A1; US8677894B2; ES2198190A1; US9352338B2; US11702710B2; WO2019043035A1; WO2009127212A1; WO2021122890A1; US8157716B2

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 0574364 A1 19931215; **EP 0574364 B1 19970122**; AT E148008 T1 19970215; DE 69307604 D1 19970306; DE 69307604 T2 19970904; ES 2098714 T3 19970501; ES 2098714 T4 19970616; IT 1255667 B 19951109; IT RM920439 A0 19920611; IT RM920439 A1 19931211

DOCDB simple family (application)

EP 93830235 A 19930527; AT 93830235 T 19930527; DE 69307604 T 19930527; ES 93830235 T 19930527; IT RM920439 A 19920611