

Title (en)

SOLID BOWL SPIRAL CENTRIFUGE AND A METHOD FOR OBTAINING OIL USING A SOLID BOWL SPIRAL CENTRIFUGE

Title (de)

VOLLMANTEL-SCHNECKENZENTRIFUGE UND VERFAHREN ZUR ÖLGEWINNUNG MIT EINER VOLLMANTEL-SCHNECKENZENTRIFUGE

Title (fr)

CENTRIFUGEUSE A VIS A PAROI PLEINE ET PROCEDE D'EXTRACTION D'HUILE A L'AIDE D'UNE CENTRIFUGEUSE A VIS A PAROI PLEINE

Publication

**EP 1383607 A1 20040128 (DE)**

Application

**EP 02737984 A 20020423**

Priority

- DE 10121434 A 20010503
- EP 0204449 W 20020423

Abstract (en)

[origin: WO02089992A1] The invention relates to a solid bowl spiral centrifuge comprising the following: a drum (3) which delimits the outer periphery of a centrifugal chamber (17) and a spiral (5) that is arranged in the drum (3), whereby segregation elements (19) project into at least some sections of the centrifugal chamber (17), said elements extending inwards from the internal periphery of the drum (3) and the spiral (5) also extending over the region of the segregation elements (19). The centrifuge is used in a method for obtaining oil from fruits or seeds. According to said method, the oil is separated as a liquid phase directly from a second mixed phase of water and solids in a two-phase cut, whereby said phases traverse the spiral region in the solid bowl centrifuge, which contains cavities (27) in the spiral blade (9) and the segregation elements (19) that extend inwards from the drum (3).

IPC 1-7

**B04B 1/20**

IPC 8 full level

**B04B 1/20** (2006.01); **C11B 1/10** (2006.01)

CPC (source: EP)

**B04B 1/20** (2013.01); **C11B 1/10** (2013.01)

Citation (search report)

See references of WO 02089992A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**WO 02089992 A1 20021114**; AT E309048 T1 20051115; DE 10121434 A1 20021114; DE 10121434 B4 20040812; DE 50204872 D1 20051215; EP 1383607 A1 20040128; EP 1383607 B1 20051109

DOCDB simple family (application)

**EP 0204449 W 20020423**; AT 02737984 T 20020423; DE 10121434 A 20010503; DE 50204872 T 20020423; EP 02737984 A 20020423