

Title (en)  
CENTRIFUGAL SEPARATOR

Title (de)  
ZENTRIFUGALSEPARATOR

Title (fr)  
SEPARATEUR CENTRIFUGE

Publication  
**EP 1392446 B1 20041103 (DE)**

Application  
**EP 02745310 A 20020523**

Priority  
• DE 10125808 A 20010526  
• EP 0205664 W 20020523

Abstract (en)  
[origin: WO02096566A1] The invention relates to a centrifugal separator (100) comprising a centrifugal frame (40), a rotatable vertically arranged spindle (10) provided with a drum (12), and a motor (90) having a vertical rotor axis (91). The spindle (10) is rotatably mounted in a bearing pot (20) and is mounted in a manner that permits it to three-dimensionally swing about a pivot (G) in relation to the centrifugal frame (40). According to the invention, the motor (90), via the housing thereof, is rigidly fixed to the centrifugal frame (40), whereby the rotor axis (91) of the motor (90) is aligned with the longitudinal axis (11) of the drive spindle (10) when at rest. The rotor of the motor (90) is connected to the spindle (10) at a coupling point (K) via a flexible coupling element (70). The spindle (10) is mounted in the bearing pot (20) at at least two interspaced bearing points (22, 24) by means of antifriction bearings. The bearing pot (20) is joined to the centrifugal frame (40) via elastic bearing elements (50).

IPC 1-7  
**B04B 9/12**

IPC 8 full level  
**B04B 9/12** (2006.01)

CPC (source: EP US)  
**B04B 9/12** (2013.01 - EP US)

Cited by  
WO2009139706A1; US9427747B2

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 02096566 A1 20021205**; AT E281243 T1 20041115; AU 2002316919 B2 20070809; CA 2448257 A1 20021205; CA 2448257 C 20110201; CN 1284631 C 20061115; CN 1561263 A 20050105; DE 10125808 A1 20021212; DE 50201474 D1 20041209; DK 1392446 T3 20050314; EP 1392446 A1 20040303; EP 1392446 B1 20041103; ES 2232762 T3 20050601; JP 2004526571 A 20040902; JP 4149817 B2 20080917; NZ 529194 A 20050128; PT 1392446 E 20050331; US 2004142808 A1 20040722; US 6960158 B2 20051101

DOCDB simple family (application)  
**EP 0205664 W 20020523**; AT 02745310 T 20020523; AU 2002316919 A 20020523; CA 2448257 A 20020523; CN 02810723 A 20020523; DE 10125808 A 20010526; DE 50201474 T 20020523; DK 02745310 T 20020523; EP 02745310 A 20020523; ES 02745310 T 20020523; JP 2002593069 A 20020523; NZ 52919402 A 20020523; PT 02745310 T 20020523; US 47817303 A 20031208