

Title (en)
CENTRIFUGAL SEPARATION APPARATUS

Title (de)
ZENTRIFUGALE TRENNVORRICHTUNG

Title (fr)
SEPARATEUR CENTRIFUGE

Publication
EP 1009537 B1 20020612 (EN)

Application
EP 98940398 A 19980826

Priority
• GB 9802572 W 19980826
• GB 9718564 A 19970903

Abstract (en)
[origin: GB2328890A] A self-powered centrifugal separator for removing particulate contaminants from engine lubricant includes a rotor canister 20 which is spun at high speed about a vertical axle by ejection of the lubricant supplied to the canister at elevated pressure by way of apertures 282 ... in a bearing tube near the upper end of the canister. In the upper end wall 23, axial discontinuities in the form of embossed ribs 401, 402 ... define between them shallow channels and direct the newly injected lubricant along the channels towards radially outer regions of the canister. The ribs extend not only radially outwardly, but also in a circumferential direction. The circumferential direction may be leading or, preferably, trailing with respect to the rotation direction of the rotor that results from ejection of the lubricant, to increase the time spent by lubricant at radially outer regions of the canister where centrifugal separation is most efficient.

IPC 1-7
B04B 5/00

IPC 8 full level
B04B 1/04 (2006.01); **B04B 5/00** (2006.01)

CPC (source: EP)
B04B 5/005 (2013.01)

Cited by
CN111663980A

Designated contracting state (EPC)
AT BE DE ES FI FR GB IE IT NL SE

DOCDB simple family (publication)
GB 2328890 A 19990310; **GB 2328890 B 20010822**; **GB 9718564 D0 19971105**; AT E218924 T1 20020615; DE 29815879 U1 19981126; DE 69806021 D1 20020718; DE 69806021 T2 20030206; EP 1009537 A1 20000621; EP 1009537 B1 20020612; JP 2001518374 A 20011016; WO 9911381 A1 19990311; ZA 987954 B 19990303

DOCDB simple family (application)
GB 9718564 A 19970903; AT 98940398 T 19980826; DE 29815879 U 19980903; DE 69806021 T 19980826; EP 98940398 A 19980826; GB 9802572 W 19980826; JP 2000508472 A 19980826; ZA 987954 A 19980901