

Title (en)
Inverted filter centrifuge

Title (de)
Stülpfilterzentrifuge

Title (fr)
Centrifugeuse à filtre retourné

Publication
EP 0753349 A3 19970502 (DE)

Application
EP 96108210 A 19960523

Priority
DE 19525567 A 19950713

Abstract (en)
[origin: EP0753349A2] The centrifugal filter is fed through a central opening in the lid by a non-rotating filling tube (18) which can be adjusted in an axial direction. A seal between filling tube and centrifuge drum is achieved by an assembly having a static seal ring (44) which bears against the centrifuge lid (10) and a dynamic (mechanical) seal which allows the outer portion of the assembly to rotate about the fixed inner portion. The mechanical seal consists of a rotating inner ring (35, 39) which is forced by springs (36, 40) against the static outer ring (34, 38). These seals surround a sealing chamber (41) which is supplied through a pipe (42) with a sealant which is returned through the space (31) between the inner tube and the outer casing of the filling tube (18).

IPC 1-7
B04B 3/02

IPC 8 full level
B04B 3/02 (2006.01); **B04B 7/00** (2006.01)

CPC (source: EP US)
B04B 3/025 (2013.01 - EP US); **B04B 7/00** (2013.01 - EP US)

Citation (search report)
• [AD] DE 4337618 C1 19950216 - KRAUSS MAFFEI AG [DE]
• [A] DE 1432776 A1 19691211 - BIRD MACHINE CO

Cited by
CN102019234A; DE102011010072B4; EP1775004A1; CN107243200A; EP2481483A2; DE102011010072A1

Designated contracting state (EPC)
CH DE GB IE IT LI

DOCDB simple family (publication)
EP 0753349 A2 19970115; EP 0753349 A3 19970502; EP 0753349 B1 20000802; DE 19525567 A1 19970116; DE 59605672 D1 20000907; US 5630938 A 19970520

DOCDB simple family (application)
EP 96108210 A 19960523; DE 19525567 A 19950713; DE 59605672 T 19960523; US 68071596 A 19960711