Title (en)

    CENTRIFUGE WITH AN INSIDE-OUT FLOW FILTER

Title (de)

    STÜLPFILTERZENTRIFUGE

Title (fr)

    CENTRIFUGEUSE A FILTRE INVERSABLE

Publication

    EP 0936948 B1 20020619 (DE)

Application

    EP 97912208 A 19971021

Priority

- DE 19646038 A 19961108
- EP 9705804 W 19971021

Abstract (en)

    [origin: US5988398A] An invertable filter centrifuge for separating liquid-solids mixtures comprises a rotatingly driven centrifugal drum, an invertable filter cloth arranged on the centrifugal drum, a filtrate housing for receiving and discharging the liquid filtrate separated from the liquid-solids mixture by means of centrifugation with a filter cloth turned inwards into the centrifugal drum, a solids housing for receiving and discharging the solids (filter cake) separated from the liquid-solids mixture during further rotation of the centrifugal drum with a filter cloth turned outwards and an annular gap surrounding the edge of the centrifugal drum in the region of the filtrate housing and the solids housing. Protection means are provided on the invertable filter centrifuge, with the aid of which a flow of a gaseous blocking medium can be generated in the annular gap surrounding the edge of the drum, this flow preventing any undesired transfer of gaseous, liquid and/or solid substances between filtrate housing and solids housing.

IPC 1-7

    B04B 3/02; B04B 7/06; B04B 15/08

IPC 8 full level

    B04B 3/00 (2006.01); **B04B 3/02** (2006.01); **B04B 7/06** (2006.01); **B04B 11/04** (2006.01); **B04B 15/06** (2006.01); **B04B 15/08** (2006.01)

CPC (source: EP KR US)

    B04B 3/02 (2013.01 - KR); **B04B 3/025** (2013.01 - EP US); **B04B 7/06** (2013.01 - EP US); **B04B 15/08** (2013.01 - EP US)

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    US 10577898 A 19980626; AT 97912208 T 19971021; CN 97199559 A 19971021; DE 19646038 A 19961108; DE 59707571 T 19971021; DK 97912208 T 19971021; EP 9705804 W 19971021; EP 97912208 A 19971021; ES 97912208 T 19971021; JP 52208598 A 19971021; KR 19997004071 A 19990507; RU 99111966 A 19971021; TW 86116455 A 19971105