

Title (en)
FILTER CENTRIFUGE

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EP 0247401 A3 19871223 (DE)

Application
EP 87106568 A 19870506

Priority
DE 3617768 A 19860527

Abstract (en)
[origin: US4997575A] In a filter centrifuge with a filter medium, a filter cake is formed following the introduction of a suspension. In a first filtration phase the suspension is exposed to centrifugal filtration a first filtration which dewateres by the inertia forces. In a second filtration phase, the cake is subjected to compressed gas filtration using frictional forces generated by a gas flow. In the second filtration phase, gas at atmospheric pressure flows through the filter cake and filter medium and is exhausted from a filtrate collector space. This space is composed of a gas space and a filtrate liquid space. To obtain flow through the solid cake at an increased pressure difference, it is proposed to provide the filter centrifuge in a pressure housing with a superatmospheric pressure controlled by a difference in filtrate liquid levels in the filtrate liquid space and the annular space following the filter. This liquid control prevents the penetration of filtrate liquid into the gas exhaust line.

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B04B 3/00; **B04B 15/00**; **B04B 11/08**

IPC 8 full level
B04B 3/00 (2006.01); **B04B 9/10** (2006.01); **B04B 11/08** (2006.01); **B04B 13/00** (2006.01); **B04B 15/00** (2006.01)

CPC (source: EP US)
B04B 3/00 (2013.01 - EP US); **B04B 11/08** (2013.01 - EP US); **B04B 13/00** (2013.01 - EP US); **B04B 15/00** (2013.01 - EP US)

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EP 0247401 A2 19871202; **EP 0247401 A3 19871223**; **EP 0247401 B1 19920108**; DE 3617768 A1 19871203; DE 3617768 C2 19911010; JP H0720558 B2 19950308; JP S62289251 A 19871216; US 4997575 A 19910305

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