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Application

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Abstract (en)

[origin: WO02057019A1] The invention relates to a centrifuge (or a separator) comprising a centrifugal drum (1) and a spring-loaded piston valve (5) that is guided in a drum bottom part (2) so as to be axially displaceable. Said piston valve (5) is maintained in a closed position by springs (7) that are supported on the drum bottom part (2), in which position solid discharge openings (6) provided in the jacket area (2a) of the drum bottom part (2f) are closed. A pressure is generated when a control medium is fed to an opening chamber (8) between the piston valve (5) and the centrifuge chamber bottom (3), which pressure overcomes the spring forces so that the piston valve (5) is displaced axially to such an extent that the solid discharge openings (6) are released. The springs (7) are produced from a non-alloy spring steel and are fully enclosed by cylinders (7) from a corrosion-resistant material. The invention allows for minimum dimensions of the springs (7) and their integration into the entire construction, high spring and thus closing forces and at the same times guarantees a complete insulation of the spring chamber relative to the sterile chamber.

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