

Title (en)
Pump for solid materials

Title (de)
Feststoffpumpe

Title (fr)
Pompe pour matériaux solides

Publication
EP 0584453 B1 19960508 (DE)

Application
EP 93106872 A 19930428

Priority
DE 4217204 A 19920523

Abstract (en)
[origin: EP0584453A1] Pump for solid materials with at least one reciprocating piston which interacts in each case with a cylinder arranged axially in the displacement path of the piston, in which, in one end position of the piston, the working space is connected directly to a charging container, a slide-like shut-off valve is provided behind the cylinder in the direction of delivery of the piston, and also with a drive arrangement for the piston and for the shut-off valve, which are actuated by a control arrangement in such a manner that, during the return run of the piston, the shut-off valve is closed and, during the forward run of the piston, the shut-off valve is opened, the shut-off valve having a plate-shaped, longitudinally displaceable shut-off member which is guided in guides and the edge of which, which faces the piston, is designed like a cutter, the plate-shaped shut-off member being guided on the cylinder side by the facing end face of a pipe section forming the outlet opening for the cylinder and being guided on the opposite side with play by guiding sections which are spaced in the direction of movement of the shut-off member, and the guiding sections and the shut-off member or an actuating rod for the shut-off member being arranged in a space which is freely accessible from the outlet opening.
<IMAGE>

IPC 1-7
F04B 7/00; **F04B 15/02**

IPC 8 full level
F04B 7/00 (2006.01); **F04B 15/02** (2006.01)

CPC (source: EP)
F04B 7/00 (2013.01); **F04B 15/02** (2013.01)

Cited by
US7600960B2

Designated contracting state (EPC)
DE FR GB NL

DOCDB simple family (publication)
EP 0584453 A1 19940302; **EP 0584453 B1 19960508**; DE 4217204 A1 19931125; DE 4217204 C2 19940414; DE 59302498 D1 19960613; JP H0681764 A 19940322

DOCDB simple family (application)
EP 93106872 A 19930428; DE 4217204 A 19920523; DE 59302498 T 19930428; JP 14298393 A 19930521