

Title (en)
Piston cartridge with venting means

Title (de)
Kartuschenkolben mit Entlüftung

Title (fr)
Piston de cartouche muni d'un évent

Publication
EP 1308218 A3 20050601 (DE)

Application
EP 02015303 A 20020710

Priority
DE 20117778 U 20011031

Abstract (en)
[origin: US2003079798A1] A cartridge plunger with at least one gas evacuation opening and at least one gas evacuation element covering the cartridge plunger opening. For a simple and dependable gas evacuation and to prevent any undesirable leakage of the filler material, the gas evacuation element is at least one cover disk that forms a labyrinth path running transverse to the plunger axis. The path is located between the contact surface of the cover disk facing the gas evacuation opening and a corresponding contact surface on the cartridge plunger.

IPC 1-7
B05C 17/01; **B05C 17/005**; **B65D 83/00**

IPC 8 full level
B05C 17/005 (2006.01); **B65D 83/00** (2006.01)

CPC (source: EP US)
B05C 17/00576 (2013.01 - EP US); **B05C 17/00579** (2013.01 - EP US); **B65D 83/0005** (2013.01 - EP US)

Citation (search report)
• [XY] US 5316186 A 19940531 - PRESTELE EUGEN [DE]
• [Y] US 4402431 A 19830906 - WIEGNER GEORG [DE], et al
• [A] DE 20010417 U1 20011011 - SULZER CHEMTECH AG WINTERTHUR [CH]
• [A] DE 29811344 U1 19991028 - PRESTELE EUGEN [DE]
• [A] US 4819836 A 19890411 - MECKENSTOCK FRITZ [DE]

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EP1514812A1; US7621428B2; US7909211B2; EP3597311A1; DE102019118627A1; US9844796B2; US10279935B2

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