

Title (en)  
Cartridge piston

Title (de)  
Kartuschenkolben

Title (fr)  
Piston à cartouche

Publication  
**EP 2108599 B1 20101201 (DE)**

Application  
**EP 09157743 A 20090409**

Priority  
DE 202008005097 U 20080412

Abstract (en)  
[origin: EP2108599A1] The piston has front and rear flexible sealing lips (20, 21) staying frontwardly, and provided at a side wall (12). The side wall comprises a circular or disconnected front protective edge (30) and a rear protective edge (33) before the sealing lips. The front protective edge covers a portion or the sealing lip in an axial projection, and is arranged at a piston shoulder (11). The front edge is protruded by the piston shoulder, and the rear protective edge is arranged at a rear end of the side wall. The rear edge is extended opposite to the side wall at a dimension. An independent claim is also included for a combination of a cartridge and a cartridge piston.

IPC 8 full level  
**B65D 83/00** (2006.01)

CPC (source: EP)  
**B65D 83/0005** (2013.01); **B65D 2205/04** (2013.01)

Cited by  
US9598223B2; US9126702B2; US9340306B2; NO334135B1; EP2399846A3; CN102407977A; DE102010048062B4; US8505785B2; US10479587B2; EP2610012A4; EP3064282A1; EP3366612A1; DE102017203241A1; US10293361B2; US10507487B2; US9731846B2; US10336478B2

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**EP 2108599 A1 20091014; EP 2108599 B1 20101201**; AT E490198 T1 20101215; DE 202008005097 U1 20091029; DE 502009000202 D1 20110113; ES 2357096 T3 20110418; PL 2108599 T3 20110531

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