

Title (en)  
High pressure feed pump

Title (de)  
Hochdruckförderpumpe

Title (fr)  
Pompe d'alimentation haute pression

Publication  
**EP 1058001 B1 20050216 (DE)**

Application  
**EP 00109323 A 20000502**

Priority  
CH 101399 A 19990531

Abstract (en)  
[origin: EP1058001A1] The pump has a cylinder (8) with piston (9), a drive shaft (3) with eccentric (6) supporting a rolling ring (7). The ring has two apertures/recesses located in its outer wall, axially outside and on either side of the contact surface (16) between ring and piston. The aperture has an approx. rectangular cross section. The surface of the ring is curved.

IPC 1-7  
**F02M 59/10**; **F04B 9/04**

IPC 8 full level  
**F02M 59/10** (2006.01); **F04B 9/02** (2006.01); **F04B 9/04** (2006.01)

CPC (source: EP US)  
**F02M 59/102** (2013.01 - EP US); **F04B 9/045** (2013.01 - EP US)

Cited by  
EP2278163A1; CN102575667A; FR2870895A1; US9518546B2; WO2011009839A1; WO03014569A1; WO2013037543A1; US11879455B2

Designated contracting state (EPC)  
DE ES FR GB IT

DOCDB simple family (publication)  
**EP 1058001 A1 20001206**; **EP 1058001 B1 20050216**; DE 50009529 D1 20050324; ES 2233236 T3 20050616; JP 2000356184 A 20001226; JP 3609693 B2 20050112; US 6205980 B1 20010327

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**EP 00109323 A 20000502**; DE 50009529 T 20000502; ES 00109323 T 20000502; JP 2000158194 A 20000529; US 58411600 A 20000531