

Title (en)
Manual pump

Title (de)
Handpumpe

Title (fr)
Pompe manuelle

Publication
EP 0953763 B1 20060621 (DE)

Application
EP 99108348 A 19990428

Priority
DE 29807533 U 19980428

Abstract (en)
[origin: EP0953763A2] The pump piston is connected to a cam by a joint which is formed between the cam and pump cylinder by a pivot engaging in a recess in the piston and in a hole in the cam, and extending parallel to the axial direction of the shaft. The pump piston is located in the cylinder with a large clearance and has at least one elastic seal fitted in a slot to counteract this.

IPC 8 full level
F04B 9/14 (2006.01); **F04B 53/14** (2006.01)

CPC (source: EP)
F04B 9/14 (2013.01)

Cited by
EP3121445A1

Designated contracting state (EPC)
DE FR IT NL SE

DOCDB simple family (publication)
DE 29906713 U1 19991028; DE 29807533 U1 19980924; DE 59913577 D1 20060803; EP 0953763 A2 19991103; EP 0953763 A3 20000816; EP 0953763 B1 20060621

DOCDB simple family (application)
DE 29906713 U 19990415; DE 29807533 U 19980428; DE 59913577 T 19990428; EP 99108348 A 19990428