

Title (en)  
IMPROVED PRECOMPRESSION PUMP.

Title (de)  
VORDRUCKPUMPE.

Title (fr)  
POMPE A PRECOMPRESSION PERFECTIONNEE.

Publication  
**EP 0623060 B1 19950823 (FR)**

Application  
**EP 93904092 A 19930119**

Priority  
• FR 9200559 A 19920120  
• FR 9300046 W 19930119

Abstract (en)  
[origin: WO9313873A1] A precompression pump comprising a cylindrical pump housing (1) containing a slidable annular plunger (3) controlled by a push rod (40) which slides in said plunger and comprises an outlet channel (41a, 42a) leading to the pump housing (1) via a side opening (42b). The plunger comprises a substantially axial annular lip (4) that interacts with the push rod to block or clear said side opening, said push rod being connected to the plunger by a first resilient member (47) which pushes the plunger back into a position in which said side opening is blocked, and radially urges said plunger towards an annular ram (44) which in turn radially urges said lip (4) towards the push rod (40) by wedging it. Said ram (44) is further designed to abut the plunger (3) outside said lip (4), whereby the movement of the ram (44) and plunger (3) towards one another, and therefore the radial stress imparted to said plunger lip (4), are limited.

IPC 1-7  
**B05B 11/00**; **B65D 47/34**

IPC 8 full level  
**B65D 47/34** (2006.01); **B05B 11/00** (2006.01)

CPC (source: EP US)  
**B05B 11/1025** (2023.01 - EP US); **B05B 11/1097** (2023.01 - EP US); **B05B 11/1047** (2023.01 - EP US); **B05B 11/1074** (2023.01 - EP US)

Cited by  
WO2017044087A1; WO2017044085A1; WO2015191490A1; WO2015191492A1; WO2017044084A1; WO2015191515A1; WO2015191518A1; WO2015191495A1; WO2015191517A1; WO2015191494A1; WO2015191496A1; WO2015191491A1; WO2017044083A1

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**WO 9313873 A1 19930722**; DE 69300399 D1 19950928; DE 69300399 T2 19960418; EP 0623060 A1 19941109; EP 0623060 B1 19950823; FR 2686377 A1 19930723; FR 2686377 B1 19940325; JP 3265347 B2 20020311; JP H07503927 A 19950427; US 5482188 A 19960109

DOCDB simple family (application)  
**FR 9300046 W 19930119**; DE 69300399 T 19930119; EP 93904092 A 19930119; FR 9200559 A 19920120; JP 51220993 A 19930119; US 25654994 A 19940914