

Title (en)  
A pump

Title (de)  
Pumpe

Title (fr)  
Pompe

Publication  
**EP 1775469 A3 20090304 (EN)**

Application  
**EP 06255287 A 20061013**

Priority  
GB 0520878 A 20051014

Abstract (en)  
[origin: EP1775469A2] There is disclosed a pump, in particular a reciprocating pump. In one embodiment, a reciprocating pump (10) is disclosed which comprises an actuating cylinder (12); an actuating piston (16) mounted for reciprocating movement within the actuating cylinder; a discharge cylinder (52); a sleeve (40) releasably mounted within the discharge cylinder, to thereby define an operating diameter of the discharge cylinder; and a discharge piston (30) coupled to the actuating piston and mounted for reciprocating movement within the sleeve to successively draw fluid into and discharge fluid from the discharge cylinder. There is also disclosed a sleeve for such a pump, and a method of changing output flow from such a pump.

IPC 8 full level  
**F04B 5/02** (2006.01); **F04B 7/02** (2006.01); **F04B 9/12** (2006.01); **F04B 9/133** (2006.01); **F04B 53/22** (2006.01)

CPC (source: EP US)  
**F04B 9/133** (2013.01 - EP US); **F04B 53/22** (2013.01 - EP US)

Citation (search report)

- [XY] US 4526000 A 19850702 - SAURWEIN ALBERT C [US]
- [XY] US 5092744 A 19920303 - BOERS ARIE [US], et al
- [XY] US 3556689 A 19710119 - HECHLER VALENTINE
- [XY] US 3669572 A 19720613 - KING WILLIAM R
- [Y] GB 1420424 A 19760107 - FLOW RESEARCH INC
- [Y] US 3368458 A 19680213 - SHINAVER LAWRENCE P
- [Y] US 5094596 A 19920310 - ERWIN LARRY R [US], et al
- [Y] GB 530050 A 19401204 - BYRON JACKSON CO

Cited by  
CN104583597A; RU2624093C2; WO2019239105A1; WO2014032758A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK RS

DOCDB simple family (publication)  
**EP 1775469 A2 20070418; EP 1775469 A3 20090304**; GB 0520878 D0 20051123; US 2007128053 A1 20070607

DOCDB simple family (application)  
**EP 06255287 A 20061013**; GB 0520878 A 20051014; US 54903206 A 20061012