

Title (en)  
ADJUSTABLE HYDROSTATIC PUMP

Title (de)  
VERSTELLBARE HYDROSTATISCHE PUMPE

Title (fr)  
POMPE HYDROSTATIQUE AJUSTABLE

Publication  
**EP 0808421 B1 19990519 (DE)**

Application  
**EP 96900534 A 19960120**

Priority  
• DE 9600081 W 19960120  
• DE 19504220 A 19950209

Abstract (en)  
[origin: DE19504220A1] The invention concerns an adjustable hydrostatic pump (10), in particular a reciprocating pump, whose lifting ring (22) can be adjusted by means of a hydromechanical adjustment device (35) and which comprises an active noise-attenuation arrangement. The pressure chamber (39) of an adjusting piston (37), which acts on the lifting ring (22), is acted on by an additional control device (47), parallel to the hydromechanical pressure regulator (41), with pressure variations such that the oscillating effects of mechanical forces on the hydraulic clamping of the lifting ring (22) are reduced, so decreasing the development of noise of the reciprocating pump.

IPC 1-7  
**F04B 11/00**; **F04B 49/08**

IPC 8 full level  
**F04B 1/04** (2006.01); **F04B 1/047** (2006.01); **F04B 1/053** (2006.01); **F04B 9/04** (2006.01); **F04B 11/00** (2006.01); **F04B 49/08** (2006.01); **F04B 49/12** (2006.01); **F04B 53/00** (2006.01)

CPC (source: EP KR US)  
**F04B 1/07** (2013.01 - EP US); **F04B 11/00** (2013.01 - EP KR US); **F04B 49/128** (2013.01 - EP US)

Cited by  
CN110630461A; DE102019110762A1

Designated contracting state (EPC)  
DE FR IT

DOCDB simple family (publication)  
**DE 19504220 A1 19960814**; CN 1077958 C 20020116; CN 1173912 A 19980218; DE 59601946 D1 19990624; EP 0808421 A1 19971126; EP 0808421 B1 19990519; JP H10513525 A 19981222; KR 100382129 B1 20030821; KR 19980702023 A 19980715; US 5980215 A 19991109; WO 9624766 A1 19960815

DOCDB simple family (application)  
**DE 19504220 A 19950209**; CN 96191786 A 19960120; DE 59601946 T 19960120; DE 9600081 W 19960120; EP 96900534 A 19960120; JP 52388096 A 19960120; KR 19970705418 A 19970807; US 87548597 A 19970708