

Title (en)  
SWASH PLATE-OPERATED AXIAL-PISTON PUMP

Publication  
**EP 0144787 A3 19860219 (DE)**

Application  
**EP 84113472 A 19841108**

Priority  
DE 3340333 A 19831108

Abstract (en)  
[origin: US4576554A] The invention relates to a swash plate axial piston pump having several pistons, the piston heads of which are held in contact with the swash plate by means of a retraction plate, and having a central pressure-regulating valve which is forced against a valve spring by the pressure in the pressure chamber. The object is to provide a way of fixing the retraction plate on the swash plate which is simple and cheap to construct and install. This is achieved by arranging and fixing the valve spring between the valve body and the retraction plate.

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**F04B 1/12**

IPC 8 full level  
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CPC (source: EP US)  
**F04B 1/126** (2013.01 - EP US); **F04B 1/141** (2013.01 - EP US)

Citation (search report)

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DE FR GB IT SE

DOCDB simple family (publication)  
**EP 0144787 A2 19850619; EP 0144787 A3 19860219; EP 0144787 B1 19870902**; DE 3340333 C1 19850627; DE 3465760 D1 19871008; JP H0435629 B2 19920611; JP S60116881 A 19850624; US 4576554 A 19860318

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**EP 84113472 A 19841108**; DE 3340333 A 19831108; DE 3465760 T 19841108; JP 23422884 A 19841108; US 66910684 A 19841107