

Title (en)

Axial plunger pump with double endface oil distribution.

Title (de)

Axialkolbenpumpe mit Ölsaugung durch beide Endseiten des Kolbens.

Title (fr)

Pompe à pistons axiaux avec distribution d'huile aux deux extrémités du piston.

Publication

EP 0205831 A2 19861230 (EN)

Application

EP 86105934 A 19860430

Priority

CN 85103289 A 19850502

Abstract (en)

Present invention relates to hydraulic pump. It integrates the principle of straight oil distributing plate and the principle of double endface oil distribution of swashplate together with such plunger pump design as swashplate pump, through shaft pump etc. By cutting slots and notches on pump casing, variable flow casing and introducing a branch intake passage on pump body to form two oil passages, an axial plunger pump with double endface oil distribution has been developed with new performance features. Said pump has advantages of self cooling, high self sucking capability, good lubrication, simple construction, no pipe for leaked oil, high efficiency etc., its service life is also longer than currently used plunger pumps by more than 10 times. Based on present invention a new series of axial piston pumps can be developed and existing plunger pumps can be modified to obtain significant economical benefits.

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IPC 8 full level

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