

Title (en)

Swash plate axial piston pump with pulsation damping means

Title (de)

Schrägscheiben-Axialkolbenpumpe mit Einrichtung zur Pulsationsminderung

Title (fr)

Pompe à pistons axiaux à plateau en biais avec dispositif d'amortissement de pulsation

Publication

EP 1013928 A2 20000628 (DE)

Application

EP 99124966 A 19991215

Priority

DE 19859328 A 19981222

Abstract (en)

At least two passages(24) with associated outlet holes(27) are formed in a connecting plate(17) and also in the web(26) in the cam plate dividing the LP kidney slot from the HP kidney slot and connect a reversing capacity(23) to the piston bores(11) passing through the web. The outlet holes of the passages corresponding to the piston bores are located on the reference circle formed by the LP(19) and the HP(18) kidney slots. The outlet holes and the passages may have the same or different diameters.

Abstract (de)

Bei einer Axialkolbenpumpe in Schrägscheibenbauweise mit in der sich drehenden Zylindertrommel linear beweglichen Kolben und mit einer zur Vermeidung einer Druckpulsation in der Anschlußplatte eingerichteten Umsteuerkapazität soll die Druckpulsation weiter vermindert werden. Hierzu ist vorgesehen, daß in der Anschlußplatte (17) sowie in dem in der Steuerscheibe (20) ausgebildeten Steg (26) zur Verbindung der Umsteuerkapazität (23) mit den über den Steg (26) hinweggehenden Kolbenbohrungen (11) wenigstens zwei Kanäle (24) mit zugehörigen Austrittslöchern (27) ausgebildet sind. <IMAGE>

IPC 1-7

F04B 1/20

IPC 8 full level

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CPC (source: EP US)

F04B 1/2042 (2013.01 - EP US)

Cited by

WO2015086260A1; WO2015197400A1; DE102013008676A1; DE10135800A1; DE10135800B4; AU2018204390B2; DE10034857A1; EP1174617A3; DE10232513B4; WO2014111360A1; DE102014223790A1; DE102015211315A1; DE102013202296A1; DE102014211858A1; WO2015193131A1; DE102014216373A1; DE102013200729A1; DE102013205449A1; DE102013212147A1; DE102014206376A1; DE102012222962A1; DE102013218124A1; DE102014221780A1; DE102015223218A1; DE102013210404A1; DE102013220231A1; DE102014225935A1; DE102015201834A1; WO2016124288A1; DE102012215240A1; WO2014032849A1; DE102013209463A1; DE102013211882A1; WO2014206681A1; DE102012220743A1; DE102012222717A1; DE102014225917A1; DE102015206716A1; DE102015206718A1; DE102015223215A1; DE102013200753A1; DE102013203221A1; DE102013210440A1; DE102013215680A1; DE102014221766A1; DE102015206714A1; DE102013203787A1; DE102013210387A1; DE102013215634A1; DE102014211870A1; DE102014216387A1; DE102015218939A1; DE102013202295A1; DE102013209478A1; DE102014206243A1; DE102014206380A1; DE102014212335A1; DE102015220879A1; DE102015226403A1; DE102012215238A1; WO2014032848A1; DE102013209483A1; DE102014211863A1; DE102014212180A1; WO2015197403A1; DE102015211720A1; DE102013209476A1; DE102013221907A1; DE102013225569A1; DE102014211868A1; WO2015193132A1; DE102015217726A1; DE102015220873A1; DE102013210400A1; DE102013215672A1; DE102013224821A1; DE102014216212A1; DE102014221778A1; DE102015206721A1; DE102015211311A1; DE102015217732A1; DE102013200705A1; DE102013200725A1; DE102014206911A1; DE102014212208A1; DE102015223849A1; US9664184B2; US9849482B2; US10527029B2; DE102013200718A1; DE102013209724A1; WO2014187676A1; DE102013215635A1; WO2015018584A1; DE102014211890A1; DE102015208925A1; DE102015219726A1; WO2017063798A1; DE102013209492A1; DE102013212148A1; DE102013215597A1; DE102013225568A1; WO2015086266A1; DE102014204898A1; DE102014206378A1; DE102015206724A1; DE102015218932A1; DE102015222086A1; US6736048B2; DE102012222950A1; DE102013200715A1; DE102013200736A1; DE102014212183A1; DE102014212214A1; DE102014219365A1; DE102015201841A1; DE102015217729A1; DE102015219730A1

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