Title (en)

PUMP ARRANGEMENT WITH DOUBLE PUMP

Publication

EP 0314994 B1 19910717 (DE)

Application

EP 88117547 A 19881021

Priority

DE 3737350 A 19871104

Abstract (en)

[origin: EP0314994A1] A pump arrangement (1) has two alternately conveying separate pumps (2, 3) and one axial piston motor (14). The piston rod (19) of the latter is divided into two sections (20, 21) each assigned to a separate pump (2, 3). Their spacing is variable by means of an adjusting device (22). Each section (20, 21) is connected to an actuating element (39, 40), each of which is assigned to one of the two limit position switch elements (37, 38) and actuates this at the end of each motor stroke. The axial piston motor (14) has two pistons (6, 11), each connected to a piston rod section (20, 21), which pistons are located in the area of an end surface (41, 42) of the piston displacement (15, 16) when the associated limit position switch element (37, 38) is actuated. If a minimum of two double pumps are used, a pump arrangement is created for two-component or multiple- component operation in which the component pumps are steplessly lift- adjustable, do not have to perform any dead travel and thereby work with low pulsation. <IMAGE>

IPC 1-7

F04B 9/12; F04B 43/06

IPC 8 full level

F04B 9/12 (2006.01); **F04B 9/135** (2006.01); **F04B 43/06** (2006.01); **F04B 43/067** (2006.01); **F04B 43/073** (2006.01); **F04B 49/12** (2006.01)

CPC (source: EP US)

F04B 9/135 (2013.01 - EP US); **F04B 43/067** (2013.01 - EP US); **F04B 43/0736** (2013.01 - EP US); **F04B 49/12** (2013.01 - EP US)

Cited by

EP0903496A3; GB2296534A; GB2296534B; GB2280479A; FR2708050A1; GB2280479B; US11286923B2; US8642054B2; US11168714B2; WO2006029898A1; WO2019077207A1; WO9746819A1; US7807118B2; US8080216B2

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