

Title (en)
HYDROSTATIC ROTARY PISTON MACHINE

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EP 0367046 B1 19930915 (DE)

Application
EP 89119514 A 19891020

Priority
CH 394388 A 19881024

Abstract (en)
[origin: EP0367046A1] The invention relates to a hydrostatic planetary piston machine, with which high torques are to be transmitted or produced. As input or output part it contains a displacer part (1) and a control part (2) situated next to the latter and serving to supply working fluid to the displacer part (1) and withdraw working fluid from it. <??>The displacer part (1) has a first, rigid housing (3) with a first internal toothing (4), which co-operates with a rotatable, eccentrically arranged planetary piston (5) with a first external toothing (6). The planetary piston (5) has a second internal toothing (7), which meshes with a second external toothing (8) on a centrally mounted shaft (9), which at least also passes through the control part (2) and is supported on both sides. The difference in the number of teeth between the first internal and external toothing (4,6) is 1. <??>The second internal and external toothing (7,8) has a difference in the number of teeth of at least ..., the external toothing (6,8) in each case being the toothing with the lower number of teeth. A rotary commutator (11) of the control part (2) is coupled to the planetary piston (5) via a circular-arc gear unit (28,29) with a transmission ratio of 1 : 1. The machine has very small overall dimensions. <IMAGE>

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F04C 2/10

IPC 8 full level
F03C 2/08 (2006.01); **F04C 2/10** (2006.01); **F04C 11/00** (2006.01)

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Cited by
EP3441613A1; EP2602484A3; DE19536060A1; DE19536060C2; EP0761968A1; US5989001A; WO9712123A1; EP3012141B1

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