

Title (en)

PISTON PUMP AND PISTON PUMP AND MOTOR ASSEMBLY.

Title (de)

KOLBENPUMPE ODER KOLBENPUMPE UND MOTORKONSTRUKTION.

Title (fr)

POMPE A PISTON, ET ENSEMBLE A POMPE A PISTON ET MOTEUR.

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Application

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Abstract (en)

[origin: WO9105164A1] The present invention refers to a piston pump and motor assembly, of the type comprising a piston pump unit and a piston motor unit coupled in a closed hydraulic circuit, each one of the said pump and motor units having at least one double action piston, and comprising driving means (2, 3, 4, 54, 58, 63) for receiving an input power, at least one first pair of crank arms (21, 81) rotatively driven by the said driving means (2, 3, 4, 54, 58, 63), at least one second pair of crank arms (28, 84) coupled to at least one movable driven shaft (26, 86), at least one pair of crank arms (25, 85) coupling in an intercrossed manner the said first and second pairs of crank arms (21, 28, 81, 84), connecting means (29, 30, 32, 90) coupling the said movable driven shaft (26, 86) to at least one piston (33, 89) of the said pump unit, whereby upon each rotation of the said driving means the said pistons carry out four strokes of hydraulic fluid volumetric displacement, means (42) for directioning the said displaced hydraulic fluid for actuating the said driving means, cam means (9, 10, 66) integral with the said driving means (3, 54, 58, 63) and cam follower means (13, 68, 72) coupled to each piston of the said motor unit, whereby the said pistons of the motor unit cause a hydraulic fluid displacement which is reinforced by the said pistons of the pump unit.

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