

Title (en)

DEVICE FOR ADJUSTING THE PHASE POSITION OF A SHAFT

Title (de)

VERSTELLVORRICHTUNG ZUM VERSTELLEN DER PHASENLAGE EINER WELLE

Title (fr)

DISPOSITIF POUR LE REGLAGE DE LA POSITION DE PHASE D'UN ARBRE

Publication

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Application

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Priority

EP 9802759 W 19980512

Abstract (en)

[origin: WO9958821A1] The device (1) for adjusting the phase position of a shaft, especially a camshaft (2) that can be rotated by a drive shaft, more particularly a crankshaft, by means of a transmission device with at least one transmission wheel (6'), is configured as a rotary piston machine according to the orbit principle. The inventive device adjusts the rotary position of the transmission wheel (6') in relation to the shaft. The rotary piston machine comprises a stator (5) with inner teeth (5a), an annular rotary piston (4) with outer teeth (4a) that engage with the inner teeth (5a) of the stator, a driven part (3) that can be rotated by means of the rotary piston (4) and a valve device (8-12). In order to control the movement of the rotary piston, the valve device (8-12) enables rotating partial areas of the working area (7) between the stator (5) and the rotary piston (4) to be joined to a fluid supply device at high or low pressure. The fluid supply device comprises a control mechanism, a phase position detector and at least one control valve. It enables a theoretical phase position to be adjusted by actuating the valve in a corresponding manner. Fluidic connection to the adjustment device occurs by means of two angular rotational connections (14a, 14b).

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