

Title (en)
ECCENTRIC AND SPRING SYSTEM FOR THE INTERNAL AND EXTERNAL COMBUSTION PISTON MOTORS

Title (de)
SYSTEM MIT EXZENTRIK UND FEDER FÜR EINE BRENNKRAFTMASCHINE

Title (fr)
SYSTEME A EXCENTRIQUE ET RESSORT POUR MOTEURS A PISTONS A COMBUSTION INTERNE OU EXTERNE

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Application
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Abstract (en)
[origin: WO0008325A1] In the system consisting of two coaxial eccentrics (5 and 6) one within another, in the connecting rod (4), guiding arms directly connected to these eccentrics and a spring (11) one end of which is connected to the spring compression mechanism (8) and the other end to the motor body, the spring (11) is completely stretched when the piston (2) is at the upper dead point. By the rotation of the crank shaft (20), the piston (2) pushes down the connection rod (4) from the dead point, with the pressure of combusting gas. The stretched spring (11) being supported by the cocking catch lever support, pushes the larger eccentric (5) downwards by means of the cocking catch lever. Both impacts influence the smaller eccentric (6) inside the larger one (5) and the crank peg (7) inside the small eccentric (6) is pushed down by an additional moment arm, thus increasing the turning moment applied on the crank shaft (20).

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