

Title (en)
CAMSHAFT ADJUSTER

Title (de)
NOCKENWELLENVERSTELLER

Title (fr)
DISPOSITIF DE REGLAGE D'ARBRE A CAMES

Publication
EP 1507961 A1 20050223 (DE)

Application
EP 03714873 A 20030322

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• EP 0303002 W 20030322

Abstract (en)
[origin: WO03100222A1] The invention relates to a camshaft adjuster for an internal combustion engine comprising a blade wheel, which is rotationally connected to a camshaft and which is mounted in a driving part whereby being able to rotate in a limited manner. Starting from an inner base circle and extending to an outer peripheral circle, the blade wheel, with its blades, engages inside intermediate spaces formed by radial projections of the driving part. A pressure chamber is formed in the peripheral direction on both sides of a blade and can be supplied with pressure oil via a control valve so that the blade wheel is displaced relative to the driving part about a rotation angle according to the pressure ratios existing inside the pressure chambers. In addition, a locking bolt, which can be hydraulically unlocked and which is subjected to the action of a pressure spring in a direction of locking, couples the blade wheel to the driving part in a locked position. The locked position is situated between two final positions of the blade wheel.

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