

Title (en)  
ELECTROMOTIVE CAMSHAFT ADJUSTER

Title (de)  
ELEKTROMOTORISCHER NOCKENWELLENVERSTELLER

Title (fr)  
ACTIONNEUR D'ARBRE A CAMES A MOTEUR ELECTRIQUE

Publication  
**EP 1776513 B1 20100922 (DE)**

Application  
**EP 05760597 A 20050713**

Priority

- EP 2005007583 W 20050713
- DE 102004038681 A 20040810

Abstract (en)  
[origin: WO2006018080A1] The invention relates to an electromotive camshaft adjuster for adjusting the angle of rotation of the camshaft (14) of an internal combustion engine relative to the crankshaft thereof. Said camshaft adjuster comprises a triple-shaft gear mechanism composed of a driving wheel (2, 2a) that is fixed to the crankshaft and is embodied as a sprocket or a synchronous belt wheel, an output part which is fixed to the camshaft, and an adjusting shaft (18, 18') which is connected in a torsion-proof manner to the rotor of an electrical adjusting motor and whose stator is fastened to the internal combustion engine. In order to keep the effort for producing the adjusting gears relatively low, the triple-shaft gear mechanism is preferably configured as a swashplate gear or a single eccentric internal gear (1, 25), the effort for the production thereof being minimized by forming the same largely without cutting, reducing the number of components, and inexpensively adjusting or compensating backlash.

IPC 8 full level  
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**F01L 1/34** (2013.01 - EP US); **F01L 1/352** (2013.01 - EP US); **F01L 13/0015** (2013.01 - EP US); **B22F 2998/00** (2013.01 - EP US); **Y10T 74/2102** (2015.01 - EP US)

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