Title (en)

FUEL INJECTION PUMP TIMING CONTROL DEVICE

Publication

EP 0090796 B1 19861015 (DE)

Application

EP 83890049 A 19830329

Priority

AT 125682 A 19820330

Abstract (en)

[origin: EP0090796A1] 1. Device for adjusting the start of fuel injection of a fuel injection pump for fuel-injection internal-combustion engines, in which a shaft of the fuel injection pump is coupled with the drive shaft in a stationary casing (25) via a bushing (9), which is axially shiftable by a regulating element, with internal toothings (10, 11), which mesh with external toothings (12, 13) of the two coaxial shafts, of which toothings meshing in pairs (10, 12; 11, 13) at least one is inclined relative to the axis, wherein the bushing (9) is rotatingly supported and secured against axial shifting by a holding element, and in which the regulating element engages with the holding element and is actuated electrically depending on operating parameters and is built as an electric motor, characterized in that the holding element is formed by a clutch gear in coaxial arrangement with the bushing, that the clutch gear (18) has an external gear (21) and is screwable in an internal gear of the stationary casing (25) and the regulating element engages with the clutch gear (18) for its rotation and that in the power transmission path from the electric motor (29) to the clutch gear (18) a spring accumulator (41) with initial tension in both directions of rotation is provided.

IPC 1-7

F02D 1/18

IPC 8 full level

F02D 1/16 (2006.01); F02D 1/18 (2006.01)

CPC (source: EP)

F02D 1/16 (2013.01); F02D 1/18 (2013.01)

Cited by

EP0114803A3; GB2285301A; US5535661A; GB2285301B

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0090796 A1 19831005; EP 0090796 B1 19861015; DE 3366993 D1 19861120

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