

Title (en)  
SPEED GOVERNOR FOR A FUEL INJECTION PUMP

Publication  
**EP 0171681 B1 19881005 (DE)**

Application  
**EP 85109377 A 19850725**

Priority  
DE 3430295 A 19840817

Abstract (en)  
[origin: EP0171681A1] 1. Speed regulator for fuel injection pumps having a regulator sleeve (23), which is adjusted as a function of speed, with a regulator lever (14), rotatably supported in the regulator housing (10) for indirect or direct transmission of the adjusting movement of the regulator sleeve (23) to a regulating slider (20), which controls the fuel delivery quantity, of the fuel injection pump, with a force, acting in opposition to the adjusting movement of the regulator sleeve due to an increase in speed, of a regulating spring (13) as part of a regulating spring arrangement which, on the one hand, at least indirectly engages the regulator lever and, on the other hand, is coupled to a speed adjusting lever (12) by means of which the tension of the regulating spring (13) can be changed and with an adjusting device for adjusting the characterized of the force, acting in opposition to the adjusting movement of the regulator sleeve (23) with an increase in speed, of the regulating spring arrangement for adjusting the degree of proportionality of the regulator, characterized in that the regulating spring arrangement exhibits a correction spring (28) engaging the regulator lever (14), having spring stiffness which is very much lower as compared with the spring stiffness of the regulating spring (13), and the adjusting device (27) exhibits in each case an adjusting member (29, 30), which can be adjusted through the wall of the regulator housing (10), for separately adjusting effective spring stiffness and spring pretension of the correction spring (28), in which arrangement the adjusting device for adjusting the spring stiffness exhibits a force transmission member (31), which can be adjusted essentially parallel to the longitudinal extent of the regulator lever (14) and transversely to the force of the regulating spring arrangement acting on the regulator lever, which force transmission member is engaged, on the one hand by the force of the correction spring (28) as spring of the regulating spring arrangement, the force of which is forwarded to the regulator lever via the force transmission member (31, 77).

IPC 1-7  
**F02D 1/04**

IPC 8 full level  
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CPC (source: EP)  
**F02D 1/045** (2013.01)

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