

Title (en)  
SPEED GOVERNOR FOR FUEL INJECTION PUMPS

Publication  
**EP 0166931 B1 19880831 (DE)**

Application  
**EP 85105970 A 19850515**

Priority  
DE 3424268 A 19840630

Abstract (en)  
[origin: US4649879A] An rpm governor for fuel injection pumps of internal combustion engines having two governor levers, namely a first lever engaged by a governor spring and a second lever which actuates the injection quantity control member and is engaged in the opposite direction from the governor spring by an rpm signal transducer, and having an intermediate spring between the two levers, is proposed, in which the intermediate spring is embodied as a spring package of relatively stiffer and softer springs in line with one another, of which the stiffer spring is effective for brief variations in force while the softer spring is contrarily effective for longer-lasting force effects. Structurally, this is attained by means of a hydraulic or pneumatic damping member (dashpot) which receives the softer spring.

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

IPC 8 full level  
**F02D 1/04** (2006.01); **F02D 1/10** (2006.01); **F02M 41/12** (2006.01)

CPC (source: EP US)  
**F02D 1/045** (2013.01 - EP US); **F02D 1/10** (2013.01 - EP US); **F02M 41/126** (2013.01 - EP US)

Cited by  
EP0609519A1; FR2720112A1; EP0296358A1

Designated contracting state (EPC)  
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DOCDB simple family (publication)  
**EP 0166931 A2 19860108; EP 0166931 A3 19870225; EP 0166931 B1 19880831**; DE 3424268 A1 19860109; DE 3564724 D1 19881006; JP H0577859 B2 19931027; JP S6119942 A 19860128; US 4649879 A 19870317

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**EP 85105970 A 19850515**; DE 3424268 A 19840630; DE 3564724 T 19850515; JP 14267885 A 19850701; US 73592385 A 19850520