

Title (en)  
CENTRIFUGAL SPEED REGULATOR FOR INJECTION COMBUSTION ENGINES

Publication  
**EP 0097887 B1 19860305 (DE)**

Application  
**EP 83105920 A 19830616**

Priority  
DE 3224358 A 19820630

Abstract (en)  
[origin: US4463720A] A flyweight governor comprising first and second sets of flyweights disposed pivotably on a flyweight support, the flyweights of the first set are arrested by stops after having traversed an idle speed angle of traverse (  $\alpha$  LL), on which stops the flyweights of said second set rest only after having traversed the total angle of traverse (  $\alpha$  max). The flyweight masses of the first set of flyweights acting only in the idle speed control have, in their position of rest, an outer contour which is, in comparison to said second set of flyweights, displaced further outwardly with an inclination angle (  $\beta$  LL) to the rotational axis (A) corresponding to the idle speed angle of traverse (  $\alpha$  LL). The flyweight governor can be used in particular for the idle speed-maximum speed rpm governors of Diesel engines for vehicles and causes a large reduction of the centrifugal forces ordinarily appearing at maximum rpm, while at the same time allowing an increase in the performance capacity in the idle speed control range.

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

IPC 8 full level  
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CPC (source: EP US)  
**F02D 1/045** (2013.01 - EP US); **F02B 3/06** (2013.01 - EP US)

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