

Title (en)

PROCESS AND DEVICE FOR CONTROLLING THE SPEED OF A SLOW-RUNNING MULTI-CYLINDER DIESEL ENGINE.

Title (de)

VERFAHREN UND VORRICHTUNG ZUR DREHZAHLREGELUNG EINES LANGSAMLAUFENDEN, MEHRZYLINDRISCHEN DIESELMOTORS.

Title (fr)

PROCEDE ET DISPOSITIF POUR LA REGULATION DE LA VITESSE D'UN MOTEUR DIESEL POLYCYLINDRIQUE A FAIBLE VITESSE DE ROTATION.

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Application

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Priority

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Abstract (en)

[origin: EP0406765A1] The invention concerns a process for the operation of a slow-running multi-cylinder diesel engine, in which a first mean rpm value  $n$  and  $\dot{n}$ , averaged over virtually the whole of the engine cycle, is determined, as well as a second mean rpm value  $n_{\alpha}$  averaged only over a sector of the cycle corresponding to the distance between two top dead centres. This sector is staggered by an rpm-dependent angle with respect to the top dead centre. The difference  $n - \dot{n}$  in rpm is controlled by a slow-acting controller and the difference  $n - n_{\alpha}$  is controlled by a quick-acting controller. Both controllers act on the fuel-injection parameters. The slow-acting controller produces only small changes in fuel admission while the quick-acting controller enables action to be taken rapidly in the event of a fault occurring.

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