

Title (en)
ROTATION SPEED REGULATOR FOR HEAT ENGINE.

Title (de)
ROTATIONSGESCHWINDIGKEITSREGELVORRICHTUNG FÜR WÄRMEMOTOR.

Title (fr)
REGULATEUR DE VITESSE DE ROTATION POUR MOTEUR THERMIQUE.

Publication
EP 0299072 A4 19900626 (DE)

Application
EP 87902865 A 19870127

Priority
SU 8700010 W 19870127

Abstract (en)
[origin: WO8805568A1] A rotation speed regulator for a heat engine in which a one-way rotation electrical motor (2) is kinematically connected to the input shaft (3) of a differential mechanism (4), the other input shaft (5) of which is driven by the heat engine (6), whereas the output shaft (8) is kinematically connected to a fuel metering organ (9) of the heat engine (6). In a channel (10) for the control of the rotation speed of the electrical motor a heat engine rotation speed measuring unit (11) is connected to the input (14) of a comparison unit (15) the input (16) of which is connected to the output of a unit (17) for programming the rotation speed of the electrical motor. The output of the comparison unit (15) is connected to the input of an integrator (21) the output of which is connected to the input (22) of a control signal shaping unit (20). A programming input (19) of the shaping unit (20) is connected to the output of the programming unit (17), whereas its output is electrically connected to the electrical motor (2). A channel (34) for correction of the electrical motor rotation speed at transitional rotation conditions of the heat engine is connected to a correcting input (30) of the control signal shaping unit (20).

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F02D 31/007 (2013.01 - EP US)

Citation (search report)

- [A] US 2987054 A 19610606 - EDDY JR WILLIAM C
- [A] GB 2102600 A 19830202 - BOSCH GMBH ROBERT [DE]
- [A] PATENT ABSTRACTS OF JAPAN vol. 9, no. 158 (M-393) 03 Juli 1985, & JP-A-60 032959 (ISHIKAWAJIMA HARIMA J.K.K.) 20 Februar 1985,
- [A] PATENT ABSTRACTS OF JAPAN vol. 8, no. 132 (M-303) 20 Juni 1984, & JP-A-59 032629 (MITSUBISHI JUKOGYO K.K.) 22 Februar 1984,
- See references of WO 8805568A1

Cited by
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