

Title (en)
DEVICE FOR GENERATION OF A SIGNAL DEPENDENT ON ROTATIONAL SPEED FOR AN ELECTRIC MOTOR, IN PARTICULAR FOR AN ELECTRONICALLY-COMMUTATED D.C. MOTOR

Title (de)
VORRICHTUNG ZUR ERZEUGUNG EINES DREHZAHLABHÄNGIGEN SIGNALS FÜR EINEN ELEKTROMOTOR, INSBESONDERE FÜR EINEN ELEKTRONISCH KOMMUTIERTEN GLEICHSTROMMOTOR

Title (fr)
DISPOSITIF PERMETTANT DE GENERER UN SIGNAL DEPENDANT DE LA VITESSE DE ROTATION POUR UN MOTEUR ELECTRIQUE, EN PARTICULIER POUR UN MOTEUR A COURANT CONTINU A COMMUTATION ELECTRONIQUE

Publication
EP 1397691 A1 20040317 (DE)

Application
EP 02745263 A 20020425

Priority
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• EP 0204604 W 20020425

Abstract (en)
[origin: WO03001216A1] The invention relates to a device for generation of a signal dependent on rotational speed, or a tachogenerator, comprising several magnet elements of alternating polarity, arranged as a distribution around the circumference of the rotor shaft. The magnet elements are preferably arranged in the form of a magnet ring, the sections of which display alternating magnetic polarity and which is retained on a support fixed to the rotor shaft. Said tachogenerator comprises at least one coil, parallel to the axis, arranged at an axial separation from the magnet elements on a further support device. The magnets and coils are placed relative to each other and may rotate relative to each other in such a manner as to induce a speed-dependent signal in the coils. According to the invention, a signal shift device is provided which superimposes a DC voltage on the signal induced in the coil to generate a voltage-shifted signal. Said voltage is preferably a positive voltage, in order to lift the speed-dependent signal into a positive voltage range.

IPC 1-7
G01P 3/48; H02K 21/24

IPC 8 full level
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CPC (source: EP US)
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Citation (search report)
See references of WO 03001216A1

Citation (examination)
• US 4527108 A 19850702 - ENDA TOYOAKI [JP]
• US 3831071 A 19740820 - MITSUI Y

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