

Title (en)

D.C. MOTOR AND METHOD FOR OPERATING SAID D.C. MOTOR

Title (de)

GLEICHSTROMMOTOR UND VERFAHREN ZUM BETREIBEN DES GLEICHSTROMMOTORS

Title (fr)

MOTEUR À COURANT CONTINU ET PROCÉDÉ DE FONCTIONNEMENT DU MOTEUR À COURANT CONTINU

Publication

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Application

EP 09736594 A 20091013

Priority

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Abstract (en)

[origin: WO2010046266A2] The invention relates to a D.C. motor (1) comprising a rotor (26) having at least one permanent magnet (27), and a stator (16) having at least three stator coils (u, u', v, v', w, w'). The D.C. motor also comprises a control device which is adapted to determine a rotational position of the rotor (26) and to initiate the supply of power to the stator coils (u, u', v, v', w, w') depending on the rotational position of the rotor (26). The control device is also adapted to determine the rotational position in a high speed range based on a voltage which is induced in one of the stator coils (u, u', v, v', w, w'). In order for the D.C. motor (1) to be controllable in a low speed range depending on the rotational position of the rotor, the control device (6) is adapted to determine the rotational position in a low speed range based on a current which flows when a voltage is applied to one of the stator coils (u, u', v, v', w, w').

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