

Title (en)

SENSOR SYSTEM AND METHOD FOR VECTOR CONTROL

Title (de)

SENSORSYSTEM UND VERFAHREN ZUR VEKTORSTEUERUNG

Title (fr)

SYSTEME DETECTEUR ET PROCEDE DE COMMANDE PAR VECTEUR

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Application

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Abstract (en)

[origin: WO2004038907A1] The invention relates to a sensor system for the vector control of an electric synchronous motor using a microprocessor (MP), especially a permanent magnet motor (PM) of a thread feeding appliance (F). According to the invention, sector permanent magnets (11) which can be rotatably driven by the rotor (R) and have the same polarities are homogeneously distributed about 360 DEG , at least two fixed Hall sensors (H1, H2) are aligned on the orbit of the sector permanent magnets, said Hall sensors being interspaced in the direction of rotation in such a way that each sector permanent magnet (11) at least temporarily activates at least two of the Hall sensors at the same time, and a zero permanent magnet (14) with reversed polarity is provided for bypassing at least one of the Hall sensors.

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