

Title (en)

METHOD AND APPARATUS FOR REALIZING ELECTRIC MOTOR CONTROL ON BASIS OF FPGA

Title (de)

VERFAHREN UND VORRICHTUNG ZUR REALISIERUNG EINER ELEKTRISCHEN MOTORSTEUERUNG AUF BASIS VON FPGA

Title (fr)

PROCÉDÉ ET APPAREIL PERMETTANT DE RÉALISER UNE COMMANDE DE MOTEUR ÉLECTRIQUE SUR LA BASE D'UN RÉSEAU FPGA

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Application

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Priority

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Abstract (en)

The embodiments of the present disclosure provide a method and device of controlling an electric motor based on FPGA, including: when a medium separating instruction has been received, acquiring a phase information of a predetermined separating element; detecting a predetermined medium carrying component by using a predetermined detecting assembly, to generate a detection signal; and based on the phase information and the detection signal, controlling, by using the electric motor, the medium carrying component to move toward the separating assembly. The embodiments of the present disclosure, by quickly, in real time and synchronously acquiring the phase information of the separating element and the detection signal of the detecting assembly, and judging whether the acquired phase information and detection signal satisfy the predetermined conditions, accurately control the timing of the movement of the medium carrying component, thereby accurately controlling the timing of the movement of the medium carrying component.

IPC 8 full level

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