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Patent Search

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Abstract:

The present subject matter describes generating a switching pulse sequence (210) for a voltage source inverter VSI (104) to control a sensorless BLDC motor (106) driven by a solar photovoltaic array (102). A measured voltage value and a measured current value is received from the voltage sensing element and the current sensing element respectively. Based on the measured voltage value and the measured current value a rotor angle is estimated and a control signal is generated. A Hall signal is computed from the rotor angle. The Hall signal is decoded to generate a decoded Hall signal. The decoded Hall signal and the control signal (d2) are conditioned to generate the switching pulse sequence (210) for the VSI (104). << To be published with Fig. 2>>

Complete Specification

FORM 2
THE PATENTS ACT, 1970
(39 of 1970) &
THE PATENTS RULES, 2003
COMPLETE SPECIFICATION
(See section 10, rule 13)

1. Title of the invention: SOLAR ENERGY DRIVEN SENSORLESS CONTROL OF BLDC MOTOR DRIVE

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3. Preamble to the description

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