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(54) **FAULT-TOLERANT CONTROL METHOD FOR OPEN-CIRCUIT FAULT IN ALTERNATING CURRENT MOTOR AND INVERTER THEREOF**

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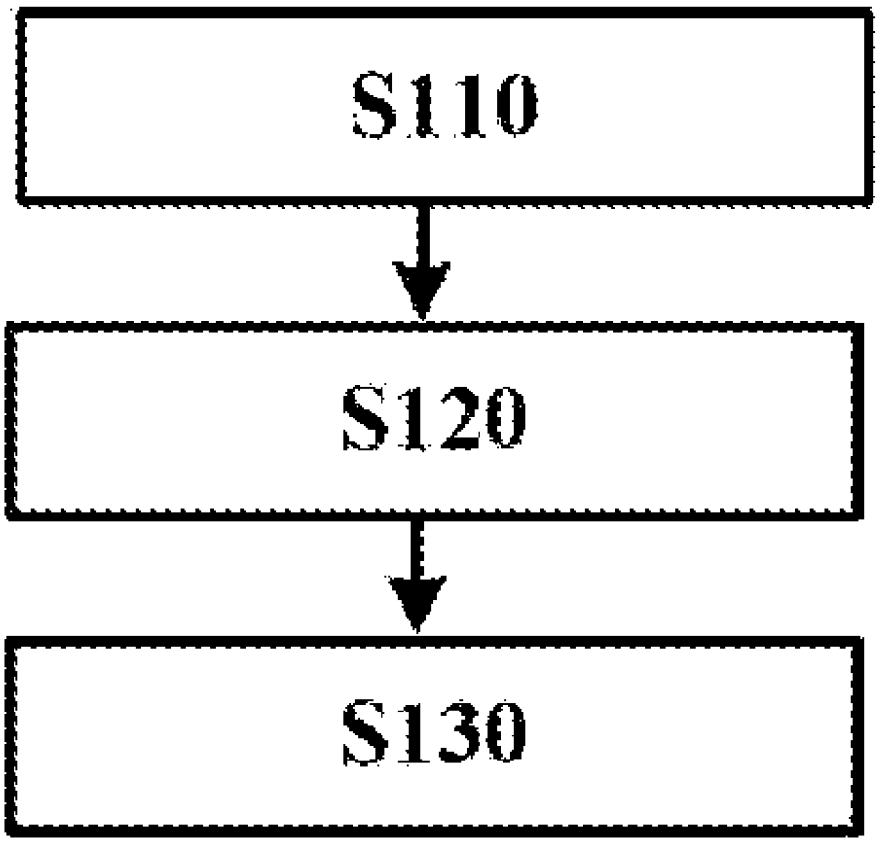
(57) **ABSTRACT**

The disclosure relates to the field of motor control, and more specifically, to a fault-tolerant control method and apparatus for an open-circuit fault in an alternating current motor and an inverter thereof, a computer device, and a computer storage medium. The method includes: A: determining, based on fault information of the alternating current motor and the inverter for driving the alternating current motor, a rotor fault position interval corresponding to each fault phase in one or more fault phases; B: establishing a fault-tolerant control constraint model, where the fault-tolerant control constraint model includes an open-circuit fault equation applicable to each fault phase for the corresponding rotor fault position interval; and C: determining, with the fault-tolerant control constraint model as a constraint, a phase current reference value by using a fault-tolerant control algorithm.




10