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(54) CONTROLLER OF ROTATING MACHINE

(57) Abstract:

PROBLEM TO BE SOLVED: To enable the vector control of the rotating machine of the first application device.

SOLUTION: A rotating machine 101 is one where two rotors and a stator are constituted in three-layer structure on the same axis, also a single coil is made in the above stator, and a composite current flows to this single coil so as to generate rotating magnetic fields as many as the above rotors. An inverter 102 supplies the composite current to the above single coil. In this case, a generation means 103 generates the composite current flowing to the above single coil, and a computation means 104 computes this detected composite current into the currents independently for every rotor. A vector control means 105 performs the vector control for every rotor based on the current for every independently computed rotor, and a PWM control means 106 generates a PWM signal by the comparison between the command voltage value obtained by this vector control and a triangular wave carrier, and outputs this generated PWM signal to an inverter 102.