

VIBRATION CONTROLLER AND VIBRATION CONTROL METHOD
ABSTRACT

A vibration controller controls vibrations generated in a driven object included in a system subject to vibrations due to the dynamic unbalance or eccentricity of a rotating member driven for rotation by an electric motor. An angular position transforming unit (45) and an angular velocity transforming unit (47) transform the output signal of a rotating motion measuring means (C1) into an angular position and an angular velocity, respectively. A sine calculating unit (55) calculates the sine of an angle obtained by adding up the angular position and a predetermined phase angle provided by a phase adjusting unit (49) by an adder (53). A multiplier (61) calculates the product of the output of a gain adjusting unit (57) that multiplies the output of the sine calculating unit (55) by a predetermined gain and the output of a multiplier (59) that calculates the square of the angular velocity. A gain adjusting unit (57') multiplies the output of a sine calculating unit (55') by a predetermined gain. An adder (68) adds up the respective outputs of the multiplier (61) the gain adjusting unit (57') and a specified torque calculating unit.

Fig.2



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