



ABSTRACT

METHOD AND APPARATUS FOR DETECTING ORIGIN OF PULSE MOTOR

A method of detecting the origin of a pulse motor is provided, which method is capable of accurately detecting a pause position of a pulse motor even if a load of an apparatus which is driven by the pulse motor greatly varies, and an origin detecting apparatus using this method. The method comprises, in addition to the steps of detecting a movable element rotating with the output axis of the pulse motor by a fixed sensor, driving a latch circuit by a signal detected by the sensor, and detecting a position of the origin of the pulse motor depending upon the state of the output of the latch circuit, the steps of determining to be the normal origin, in case the movable element exists in a detection area of the fixed sensor when the output of the latch circuit is in inverted state, a pause position where the pulse motor is now being stopped, and rotating the pulse motor in the reverse direction in case the movable element does not exist in a detection area of the fixed sensor and determining to be the normal origin, in case there is any change in the output of the fixed sensor during this reverse revolution of the pulse motor, a pause position where the pulse motor stops after having rotated in the reverse direction, and rotating the pulse motor again in the normal direction in case there is no change in the output of the

fixed sensor during the reverse revolution of the pulse motor and determining to be the normal origin, a pause position where the pulse motor stops after having rotated in the normal direction.

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