

PERMANENT-MAGNETIC SYNCHRONIZATION MOTOR

ABSTRACT

A permanent-magnetic synchronization motor comprises a rotor (6) and a stator (12). The rotor (6) has a plurality of permanent magnets (1), a plurality of cores (2) composed of a magnetic material, and a holding part which holds the plurality of permanent magnets (1) and the plurality of cores (2), and is composed of a metal non-magnetic material. The holding part has a first flat plate part (4a), which is a flat plate vertical to a rotation axis of the rotor (6), and a plurality of supporting parts which is installed on the first flat plate part (4a) and disposed in a circumferential direction of the rotor (6). The plurality of cores (2) is each arranged at a position between a plurality of supporting parts disposed in the circumferential direction. Each of the plurality of cores (2) has a locking part which latches together to at least one within a plurality of supporting parts. A plurality of permanent magnets (1) is each arranged at a position between a plurality of cores (2) disposed in the circumferential direction.

Figure 5