A second bearing housing, which also holds a bearing, is fixed to the outside of the second framework. The motor also has a rotor including a rotational shaft that is rotatably supported by the bearings. The rotational shaft extends into the first and second frameworks. A rotor core is attached to the rotational shaft, and faces an inner side of the stator core. A first support base and a second support base are fixed to the rotor, and are interposed by the rotor core. A first locking member is movably coupled to the first framework, and is configured to move along an axial direction of the rotational shaft toward a side of the rotor core to contact the first support base and fix the rotor. A second locking member is movably coupled to the second framework, and is configured to move along an axial direction of the rotational shaft toward a side of the rotor core to contact the second support base and fix the rotor.

[0008] According to another embodiment, a motor has a cylindrical stator core. A first framework is fixed to the first side of the stator core in an axial direction. A first bearing housing, which holds a bearing, is fixed to the outside of the first framework. A second framework~~, which holds a bearing~~, is fixed to the second side of the stator core in an axial direction. A second bearing housing, which also holds a bearing, is fixed to the outside of the second framework. The motor also has a rotor that includes a rotational shaft that is rotatably supported by the bearings. The rotational shaft extends into the first and second frameworks. A rotor core is attached to the rotational shaft, and faces an inner side of the stator core. A first support base and a second support base are fixed to the rotor, and are interposed by the rotor core. A first locking member that is movably coupled to the first framework is configured to move along an axial direction of the rotational shaft toward a side of the rotor core to contact the first support base and fix the rotor. A second locking member that is movably coupled to the second framework is configured to move along the axial direction of the rotational shaft toward a side of the rotor core to contact the second support base and fix the rotor. A first partition plate is fixed to the rotor between the rotor core and a first bearing portion. A second partition plate is fixed to the rotor between the rotor core and a second bearing portion.

[0009] According to another embodiment, a method of maintaining a motor is disclosed. A fixing bolt is removed from a first framework. A pushing bolt is screwed into the first framework, and the first locking member moves along a rotor into contact with a first support base of the rotor. A fixing bolt is removed from a second framework. A pushing bolt is screwed into the second framework, and the second locking member moves along the rotor into contact with a second support base of the rotor. The contact between the first locking member and the first support base and the contact between the second locking member and the second support base fixes the rotor.

[0010] The features and advantages of the present disclosure will be readily apparent to those skilled in the art upon a reading of the description of exemplary embodiments, which follows.