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(54) MAGNETIC MODULATION GEAR AND **GEAR MOTOR**

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(57)ABSTRACT

A magnetic modulation gear includes a plurality of outer pole magnets arranged in a circumferential direction, a rotor that includes a plurality of magnetic pole pieces arranged in the circumferential direction on a radially inner side with respect to the outer pole magnets, a plurality of inner pole magnets arranged in the circumferential direction on a radially inner side with respect to the magnetic pole pieces, and a plurality of bearings that rotatably support the rotor, in which the plurality of bearings include one-side bearings located on one side in an axial direction with respect to the magnetic pole pieces, and a first bearing closest to the magnetic pole pieces, of the one-side bearings, is disposed within a region radially outward with respect to inner peripheral ends of the outer pole magnets, or within a region radially inward with respect to outer peripheral ends of the inner pole magnets.

