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NISHIDA et al.(10) **Pub. No.: US 2022/0352799 A1**(43) **Pub. Date: Nov. 3, 2022**(54) **ROTARY MOTOR AND ROBOT ARM**(71) Applicant: **SEIKO EPSON CORPORATION,**
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ABSTRACT

A motor includes a stator and a rotor, the rotor includes a frame coupled to a rotation shaft and a magnet fixed to the frame, with a direction from the stator toward the rotor as a first direction, the magnet includes a plurality of lower part main pole magnets having a magnetization direction in the first direction and pluralities of lower part second rightward sub-magnets and lower part second leftward sub-magnets having a magnetization direction in a direction different from the first direction, the lower part main pole magnet includes a lower part first upward main magnet placed at a negative side in the first direction and a lower part second upward main magnet fixed to the frame, when the magnet is seen along the first direction, the lower part first upward main magnet and the lower part second rightward sub-magnet and lower part second leftward sub-magnet partially overlap.

