

(19) United States

(12) Patent Application Publication (10) Pub. No.: US 2024/0235301 A1

Jul. 11, 2024 (43) **Pub. Date:**

(54) ROTOR AND ELECTRIC MOTOR

(71) Applicant: Panasonic Intellectual Property Management Co., Ltd., Osaka (JP)

(72) Inventor: AKIRA YAMAGUCHI, Fukui (JP)

(21) Appl. No.: 18/559,357

(22) PCT Filed: Apr. 21, 2022

(86) PCT No.: PCT/JP2022/018464

§ 371 (c)(1),

Nov. 7, 2023 (2) Date:

(30)Foreign Application Priority Data

(JP) 2021-083715

Publication Classification

(51) Int. Cl. H02K 1/30 (2006.01)H02K 1/2733 (2022.01)H02K 21/16 (2006.01)

(52) U.S. Cl. CPC H02K 1/30 (2013.01); H02K 1/2733 (2013.01); H02K 21/16 (2013.01)

(57)ABSTRACT

A rotor includes a rotating shaft including an axis as a rotation center, a magnet having a cylindrical shape and disposed so as to surround the rotating shaft, and a spacer that is disposed between the rotating shaft and the magnet, includes a sleeve extending from a first end portion to a second end portion along the axis, and fixes the magnet to the rotating shaft via the sleeve.

