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IIJIMA et al.(10) **Pub. No.: US 2023/0231431 A1**(43) **Pub. Date: Jul. 20, 2023**(54) **MOTOR ROTOR WITH FRACTURED
MAGNET****Publication Classification**(71) Applicant: **IHI Corporation**, Tokyo (JP)(72) Inventors: **Kai IIJIMA**, Tokyo (JP); **Naoki
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ABSTRACT

A motor rotor includes a rotatable shaft, and a magnet structure mounted around the shaft. The magnet structure includes magnet pieces including a first magnet piece and a second magnet piece. The first magnet piece has a fracture surface facing the second magnet piece, and an outer surface forming a circumferential surface of the magnet structure. A surface roughness of the fracture surface is greater than a surface roughness of the outer surface of the first magnet piece.

