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SAKAGUCHI(10) **Pub. No.: US 2022/0360207 A1**(43) **Pub. Date: Nov. 10, 2022**(54) **MOTOR CONTROL DEVICE****Publication Classification**(71) Applicant: **DENSO CORPORATION**, Kariya-city
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G01R 31/34 (2006.01)(72) Inventor: **Kouji SAKAGUCHI**, Kariya-city (JP)(52) **U.S. Cl.**
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(2013.01)(21) Appl. No.: **17/869,052**(57) **ABSTRACT**(22) Filed: **Jul. 20, 2022****Related U.S. Application Data**(63) Continuation of application No. PCT/JP2021/
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A motor control device controls a drive of a motor having a motor winding includes an angle calculation unit, a drive control unit, and an abnormality diagnosis unit. The angle calculation unit acquires a detected value from a rotation angle sensor that detects a rotation angle of the motor and calculate the rotation angle of the motor. The drive control unit controls the drive of the motor based on the rotation angle of the motor. When an abnormality in the rotation angle of the motor is detected while the motor is being driven, the abnormality diagnosis unit performs an abnormality diagnosis of an energized system while maintaining an energized state.

