



US 20240178714A1

(19) **United States**(12) **Patent Application Publication**  
**OHIRA**(10) **Pub. No.: US 2024/0178714 A1**(43) **Pub. Date: May 30, 2024**(54) **MOTOR UNIT****Publication Classification**(71) Applicant: **TOYOTA JIDOSHA KABUSHIKI**  
**KAISHA, Toyota-shi (JP)**(51) **Int. Cl.**  
**H02K 3/28** (2006.01)  
**H02K 5/22** (2006.01)  
**H02K 7/116** (2006.01)(72) Inventor: **Kengo OHIRA, Toyota-shi (JP)**(52) **U.S. Cl.**  
CPC ..... **H02K 3/28** (2013.01); **H02K 5/225**  
(2013.01); **H02K 7/116** (2013.01); **H02K**  
**2203/09** (2013.01)(73) Assignee: **TOYOTA JIDOSHA KABUSHIKI**  
**KAISHA, Toyota-shi (JP)**(57) **ABSTRACT**

A motor unit disclosed herein may comprise: a rotor supported rotatably; a stator core facing the rotor in a radial direction; a stator coil disposed on the stator core; and a first busbar having a plate shape and including a base end connected to the stator coil and a distal end including a connection terminal. The first busbar may include a linear section extending along a straight line. The linear section of the first busbar may include a reinforced section where a thickness direction of the first busbar varies along a width direction of the first busbar.

(21) Appl. No.: **18/500,353**(22) Filed: **Nov. 2, 2023**(30) **Foreign Application Priority Data**

Nov. 29, 2022 (JP) ..... 2022-190236

