



US 20240213844A1

(19) **United States**(12) **Patent Application Publication****He et al.**(10) **Pub. No.: US 2024/0213844 A1**(43) **Pub. Date: Jun. 27, 2024**(54) **ELECTRICAL MOTOR STATOR AND COMPRESSOR**(52) **U.S. Cl.**CPC *H02K 3/522* (2013.01); *F25B 31/026* (2013.01); *H02K 2203/09* (2013.01)(71) Applicant: **Robert Bosch GmbH**, Stuttgart (DE)(72) Inventors: **Guofu He**, Changsha (CN); **Zhengmao Wan**, Changsha (CN); **Yilin Wang**, Changsha (CN); **Fan Cheng**, Changsha (CN); **Jean-Marc Ritt**, Buehl (DE); **Stephan Kohler**, Buehl (DE)

(57)

ABSTRACT

An electrical motor stator and a compressor includes a stator assembly and contact plate. The stator assembly includes an iron core; a winding having wires; a first insulating seat; and a plurality of first electrical contacts fixed to the first insulating seat. The contact plate includes a body; a plurality of sleeve seats having a first opening, a second opening, and a cavity extending between the first opening and the second opening. The sleeve seats are positioned to correspond to the first electrical contacts and, through the first opening, at least partially accommodating the first electrical contacts within the cavity. A plurality of second electrical contacts includes a first connecting portion and a second connecting portion, with the first connecting portion disposed within the cavity and in contact with the first electrical contacts, establishing an electrical connection. The second connecting portion is exposed on a side of the body.

(21) Appl. No.: **18/393,978**(22) Filed: **Dec. 22, 2023**(30) **Foreign Application Priority Data**

Dec. 22, 2022 (CN) 202211654656.6

Publication Classification(51) **Int. Cl.***H02K 3/52* (2006.01)*F25B 31/02* (2006.01)