Title (en)

REINFORCEMENT STRUCTURE FOR ELECTRICALLY DRIVEN COMPRESSOR

Title (de)

VERSTÄRKUNGSSTRUKTUR FÜR ELEKTRISCH ANGETRIEBENEN KOMPRESSOR

Title (fr)

STRUCTURE DE RENFORCEMENT POUR COMPRESSEUR À ENTRAÎNEMENT ÉLECTRIQUE

Publication

EP 3875761 A1 20210908 (EN)

Application

EP 19878881 A 20191028

Priority

- JP 2018203462 A 20181030
- JP 2019042087 W 20191028

Abstract (en)

An object is to provide an electric compressor reinforcement structure such that when a mounting leg is formed on an outer face of a cover that an inverter housing has on an endmost side in an axial direction of an electric compressor, a space in the inverter housing is not crushed even when a strong force acts on the electric compressor due to a collision or the like at a front of a vehicle. A housing 6 of an electric compressor 1 has an inverter housing 9 that is formed of a side wall portion 91 and a partitioning wall 92 and in which an inverter device 5 is housed, the inverter housing 9 is closed to a front of the electric compressor 1 by a cover 10 on which a mounting leg 103 is formed, and a hollow protruding portion 104 protruding in a dome form centered on the mounting leg 103 is provided on an outer face of the cover 10, whereby a load exerted from the front of the electric compressor 1 is dispersed to prevent the space in the inverter housing 9 from being crushed.

IPC 8 full level

F04B 39/00 (2006.01); **F04C 29/00** (2006.01)

CPC (source: EP)

F01C 21/10 (2013.01); **F04B 35/04** (2013.01); **F04B 39/121** (2013.01); **F04C 18/0215** (2013.01); **F04C 28/28** (2013.01); F04C 2240/808 (2013.01)

Cited by

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3875761 A1 20210908; **EP 3875761 A4 20220803**; CN 112739911 A 20210430; CN 112739911 B 20230725; JP WO2020090701 A1 20210924; WO 2020090701 A1 20200507

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