

Title (en)
ELECTRIC COMPRESSOR

Title (de)
ELEKTRISCHER VERDICHTER

Title (fr)
COMPRESSEUR ÉLECTRIQUE

Publication
EP 2873858 A1 20150520 (EN)

Application
EP 13791594 A 20130430

Priority
• JP 2012114708 A 20120518
• JP 2013062532 W 20130430

Abstract (en)
[Object] To provide an electric compressor which allows a reduction in size by reducing a dimension in an axial direction, and allows to enhance flexibility of a position for forming an intake port and layout of a refrigerant route. Even though the intake port is not arranged in the vicinity of a drive circuit, the drive circuit is sufficiently cooled. [Abstract] In a configuration including: a compressing mechanism 3 and an electric motor 4 configured to drive the compressing mechanism 3 in a housing, wherein the electric motor 4 includes : a stator 21 formed by winding coils on a stator core 24 fixed in the housing 2; and a rotor 22 fixedly mounted on a drive shaft 10 and rotatably arranged inside the stator 21, so that compressed fluid is introduced to the compressing mechanism 3 through an electric motor storage space 12a that houses the electric motor 4, a fluid introducing passage 31 extended along the axial direction of the drive shaft 10 is formed between the housing 2 and the stator core 24, and the intake port 30 configured to introduce the compressed fluid is provided at the position of the housing 2 facing the outer peripheral surface of the stator core 24 and is connected to the fluid introducing passage 31.

IPC 8 full level
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Cited by
EP3396162A1; EP4112940A4; FR3065758A1

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BA ME

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