

Title (en)
HERMETIC ELECTRIC COMPRESSOR

Title (de)
HERMETISCHER ELEKTRISCHER KOMPRESSOR

Title (fr)
COMPRESSEUR ÉLECTRIQUE HERMÉTIQUE

Publication
EP 3315774 A1 20180502 (EN)

Application
EP 16846209 A 20160824

Priority
• JP 2015184054 A 20150917
• JP 2016074591 W 20160824

Abstract (en)
The present invention reduces compressive stress and magnetic loss during shrink-fitting or press-fitting of a stator, and improves motor efficiency, without the need to change the shape of a stator core of the stator and without significantly enlarging a sealed housing. A hermetic electric compressor (1) in which an electric motor (5) and a compression mechanism (6) are fixedly installed within a cylindrical sealed housing (2) and the compression mechanism (6) can be driven by the electric motor (5) via a drive shaft (13), wherein the electric motor (5) is fixedly installed by shrink-fitting or press-fitting only a partial range (h1 to h5) of the stator (11) in its thickness direction to an inner peripheral surface of the sealed housing (2), and the remaining portion of the stator is in non-contact with the inner peripheral surface of the housing by increasing the inner diameter of the sealed housing (2).

IPC 8 full level
F04B 39/00 (2006.01); **F04C 29/00** (2006.01)

CPC (source: EP)
F04B 39/00 (2013.01); **F04C 23/008** (2013.01); **F04C 29/00** (2013.01)

Cited by
US11658524B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3315774 A1 20180502; **EP 3315774 A4 20180725**; CN 107709775 A 20180216; JP 2017057807 A 20170323; JP 6151324 B2 20170621; WO 2017047338 A1 20170323

DOCDB simple family (application)
EP 16846209 A 20160824; CN 201680037659 A 20160824; JP 2015184054 A 20150917; JP 2016074591 W 20160824