

Title (en)
SCROLL-TYPE FLUID MACHINE

Title (de)
SPIRALSTRÖMUNGSMASCHINE

Title (fr)
MACHINE À FLUIDE DU TYPE À VOLUTE

Publication
EP 2708749 A4 20150114 (EN)

Application
EP 12782824 A 20120426

Priority
• JP 2011107196 A 20110512
• JP 2012061181 W 20120426

Abstract (en)
[origin: US2013243635A1] Provided is a scroll-type fluid machine which can reduce deformation of a rotary scroll caused when fixing a bearing into a boss part. A scroll compressor, in which a sealed chamber confining a fluid is formed by a fixed scroll and the rotary scroll meshed together, each of the scrolls having a spiral wall erected on one side face of an end plate, includes: a metallic boss part (15C) protruding from the other side face of the end plate of the rotary scroll; a metallic rotary bearing (12) inserted into the boss part (15C); a crankshaft rotating around an axis and including a bush part inserted in the rotary bearing (12) and rotatably supported by the rotary bearing (12); and an insert member (31) disposed between the boss part (15C) and the rotary bearing (12) and having a thermal expansion coefficient greater than those of the boss part (15C) and the rotary bearing (12).

IPC 8 full level
F04C 18/02 (2006.01); **F04C 29/00** (2006.01)

CPC (source: EP US)
F04C 18/0215 (2013.01 - EP US); **F04C 29/0078** (2013.01 - EP US); **F04C 2240/51** (2013.01 - EP US); **F04C 2240/56** (2013.01 - EP US); **F04C 2270/13** (2013.01 - EP US); **F05C 2251/046** (2013.01 - EP US)

Citation (search report)
• [A] EP 0759512 A1 19970226 - TORRINGTON CO [US]
• [A] US 6273614 B1 20010814 - NICOT CHRISTOPHE [FR]

Designated contracting state (EPC)
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