

Title (en)  
SCROLL TYPE FLUID MACHINE

Title (de)  
SPIRALSTRÖMUNGSMASCHINE

Title (fr)  
MACHINE À FLUIDE DE TYPE À SPIRALE

Publication  
**EP 2192303 B1 20161207 (EN)**

Application  
**EP 08829203 A 20080828**

Priority  
• JP 2008065434 W 20080828  
• JP 2007231450 A 20070906

Abstract (en)  
[origin: EP2192303A1] A scroll type fluid machine (1) includes piping (40). The piping (40) has a boss (36) fitted into a through hole (4a) from outside of a hermetic container (4) and forming a joint (42) in cooperation with the hermetic container (4) to seal up the through hole (4a), an internal pipe (38) inserted through the boss (36) into a scroll unit (12) and made of a copper-plated, iron-based material, and an external pipe (8) inserted into the internal pipe (38) and projecting from the boss (36) to the outside of the hermetic container (4). The external pipe (8) is made of a copper-based material. The boss (36) is made of a copper-plated, iron-based material and has an iron-exposed region (48) where the iron-based material is exposed and where the joint (42) is formed.

IPC 8 full level  
**F04C 18/02** (2006.01); **F04B 39/12** (2006.01); **F04C 29/12** (2006.01)

CPC (source: EP)  
**F04B 39/121** (2013.01); **F04C 18/0215** (2013.01); **F04C 23/008** (2013.01); **F04C 27/008** (2013.01); **F04C 18/02** (2013.01); **F04C 2230/60** (2013.01); **F04C 2240/30** (2013.01); **F04C 2240/806** (2013.01)

Cited by  
EP4206469A4; EP4239196A1; US11965678B2; US11788531B2

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

DOCDB simple family (publication)  
**EP 2192303 A1 20100602; EP 2192303 A4 20150520; EP 2192303 B1 20161207**; AU 2008294163 A1 20090312; AU 2008294163 B2 20120119; JP 2009062876 A 20090326; JP 5222441 B2 20130626; WO 2009031452 A1 20090312

DOCDB simple family (application)  
**EP 08829203 A 20080828**; AU 2008294163 A 20080828; JP 2007231450 A 20070906; JP 2008065434 W 20080828