

Title (en)  
SCROLL COMPRESSOR

Title (de)  
SPIRALVERDICHTER

Title (fr)  
COMPRESSEUR À SPIRALE

Publication  
**EP 3477113 A1 20190501 (EN)**

Application  
**EP 16907249 A 20160628**

Priority  
JP 2016069137 W 20160628

Abstract (en)  
A scroll compressor includes a through hole penetrating through a base plate portion of a fixed scroll to communicate with a compression chamber, a fixing part provided on a surface of the base plate portion that is opposite to an orbiting scroll to cover the through hole and having an injection port communicating with the through hole, an injection pipe being connected to the injection port, a valve body inserted into the through hole in such a manner that the valve body is configured to reciprocate, and a spring inserted into the through hole and configured to urge the valve body toward the injection port. A flow passage is formed in the valve body or between the valve body and the through hole and is configured to allow refrigerant having flowed into the through hole from the injection port to flow out to the compression chamber. The valve body is configured to close the flow passage between the injection port and the compression chamber when the valve body is urged by the spring to move toward the injection port.

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

CPC (source: EP KR)  
**F04C 18/02** (2013.01 - EP); **F04C 18/0215** (2013.01 - EP KR); **F04C 29/128** (2013.01 - KR); **F04C 29/0007** (2013.01 - EP); **F04C 2210/222** (2013.01 - KR); **F04C 2230/60** (2013.01 - KR)

Cited by  
EP4325055A1

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 3477113 A1 20190501**; **EP 3477113 A4 20190501**; JP 6641479 B2 20200205; JP WO2018003016 A1 20190131; KR 20180124130 A 20181120; WO 2018003016 A1 20180104

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**EP 16907249 A 20160628**; JP 2016069137 W 20160628; JP 2018524623 A 20160628; KR 20187031278 A 20160628