

Title (en)  
Scroll compressor

Title (de)  
Spiralverdichter

Title (fr)  
Compresseur à spirales

Publication  
**EP 1319839 B1 20050727 (EN)**

Application  
**EP 03006365 A 19980916**

Priority  
• EP 98117556 A 19980916  
• JP 26193397 A 19970926

Abstract (en)  
[origin: EP1319838A1] A highly reliable scroll compressor with an improved oil injection mechanism having a particular composition in a particular position in a scroll compression element is disclosed. The oil injection mechanism for injecting and supplying a lubricant is provided in the vicinity of an intake position where a refrigerant gas is introduced from outside an hermetic housing into the scroll compression element via an intake pipe. The oil injection mechanism is fixed to a support frame being composed of an oil nozzle for injecting the lubricant through an oil feed passage and a valve that opens/closes an oil feed passage inlet of the oil nozzle by utilizing the elasticity of a spring. The oil injection mechanism may be fixed at other location than the support frame; it may be secured, for example, to an stationary scroll. <IMAGE>

IPC 1-7  
**F04C 18/02**; **F04C 29/08**; **F04C 29/02**

IPC 8 full level  
**F04C 29/02** (2006.01); **F04C 18/02** (2006.01); **F04C 29/00** (2006.01); **F04C 29/04** (2006.01)

CPC (source: EP)  
**F04C 18/0215** (2013.01); **F04C 29/0014** (2013.01); **F04C 29/021** (2013.01)

Cited by  
CN110360103A

Designated contracting state (EPC)  
DE ES FR GB IT

DOCDB simple family (publication)  
**EP 1319838 A1 20030618**; **EP 1319838 B1 20050727**; DE 69831023 D1 20050901; DE 69831023 T2 20060601; DE 69831024 D1 20050901; DE 69831024 T2 20060601; EP 1319839 A1 20030618; EP 1319839 B1 20050727; ES 2246024 T3 20060201; ES 2246025 T3 20060201; JP 3448469 B2 20030922; JP H11101187 A 19990413

DOCDB simple family (application)  
**EP 03006364 A 19980916**; DE 69831023 T 19980916; DE 69831024 T 19980916; EP 03006365 A 19980916; ES 03006364 T 19980916; ES 03006365 T 19980916; JP 26193397 A 19970926