

Title (en)
Scroll compressor

Title (de)
Spiralverdichter

Title (fr)
Compresseur à spirales

Publication
EP 1433956 B1 20120229 (EN)

Application
EP 03029176 A 20031218

Priority
JP 2002370997 A 20021220

Abstract (en)
[origin: EP1433956A1] A scroll compressor includes a fixed scroll member fixed to a housing and a movable scroll member engaging the fixed scroll member. Each scroll member has a base plate and a spiral wall. A compression chamber between the fixed and movable scroll members reduces in volume by orbiting the movable scroll member, thus compressing gas. A back pressure chamber is defined in the housing on a back surface side of the movable scroll base plate between the movable scroll member and the a fixed wall of the housing. An introducing passage interconnects the back pressure chamber and a relatively high pressure region. A seal member on one of the movable scroll member and the fixed wall seals the back pressure chamber as being slidable on the other. The seal member includes a portion for lowering sealing performance, which interconnects the back pressure chamber and a relatively low pressure region. <IMAGE>

IPC 8 full level
F04C 18/02 (2006.01); **F04C 27/00** (2006.01); **F04C 23/00** (2006.01)

CPC (source: EP US)
F04C 23/008 (2013.01 - EP US); **F04C 27/005** (2013.01 - EP US); **F04C 2210/261** (2013.01 - EP US)

Cited by
DE112005002722B4; US7699589B2; US8591210B2; US9074599B2

Designated contracting state (EPC)
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EP 1433956 A1 20040630; EP 1433956 B1 20120229; JP 2004204680 A 20040722; JP 4007189 B2 20071114; US 2004136854 A1 20040715

DOCDB simple family (application)
EP 03029176 A 20031218; JP 2002370997 A 20021220; US 74235703 A 20031219