

Title (en)
SCROLL COMPRESSOR

Title (de)
SPIRALVERDICHTER

Title (fr)
COMPRESSEUR À SPIRALES

Publication
EP 4062067 B1 20231108 (DE)

Application
EP 19805654 A 20191118

Priority
EP 2019081644 W 20191118

Abstract (en)
[origin: WO2021098941A1] The invention relates to a scroll compressor with a high-pressure chamber (80), a low-pressure chamber (87), an orbiting displacement spiral (60) which is arranged on a driven eccentric unit (50) and which engages into a stationary spiral (62), said displacement spiral (60) and stationary spiral (62) delimiting a compression chamber (61), and a counter pressure chamber (82) which adjoins the displacement spiral (60) and which is fluidically connected to the high-pressure chamber (80) via a gas connection channel (100) and to the compression chamber (61) via a fluid passage (70) provided on the displacement spiral (60). The fluid passage (70) is equipped with a Venturi nozzle (71) which has at least one transverse opening (741, 742) at the constricted section (72) of the Venturi nozzle, wherein the transverse opening (741, 742) is fluidically connected to the counter pressure chamber (82).

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

CPC (source: EP)
F04C 18/0215 (2013.01); **F04C 18/0253** (2013.01); **F04C 29/0021** (2013.01); **F04C 23/008** (2013.01)

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

DOCDB simple family (publication)
WO 2021098941 A1 20210527; EP 4062067 A1 20220928; EP 4062067 B1 20231108

DOCDB simple family (application)
EP 2019081644 W 20191118; EP 19805654 A 20191118