

Title (en)
SCROLL COMPRESSOR

Title (de)
SPIRALVERDICHTER

Title (fr)
COMPRESSEUR À SPIRALE

Publication
EP 3919742 A4 20220330 (EN)

Application
EP 20779510 A 20200108

Priority
• JP 2019054819 A 20190322
• JP 2020000319 W 20200108

Abstract (en)
[origin: EP3919742A1] A scroll compressor (1) includes a tubular casing (10) and a circumferential guide (83) formed on an inner peripheral surface of the casing (10) to guide a compressed refrigerant. The circumferential guide (83) and the inner peripheral surface define therebetween a circumferential flow path (90) configured to guide the compressed refrigerant in a circumferential direction and cause the compressed refrigerant to flow out through an outlet (91). The circumferential guide (83) includes an outlet region (84) formed into a shape that allows the circumferential flow path (90) to widen toward the outlet (91). This configuration can reduce oil loss of the scroll compressor.

IPC 8 full level
F04C 18/02 (2006.01); **F04C 23/00** (2006.01); **F04C 29/02** (2006.01); **F04C 29/12** (2006.01)

CPC (source: EP)
F04C 18/0215 (2013.01); **F04C 23/008** (2013.01); **F04C 29/026** (2013.01); **F04C 29/12** (2013.01)

Citation (search report)
• [X1] JP 2010106790 A 20100513 - DAIKIN IND LTD
• [X1] WO 2008030014 A1 20080313 - LG ELECTRONICS INC [KR], et al
• [X1] JP 2008190329 A 20080821 - DAIKIN IND LTD
• [X1] JP 2011149315 A 20110804 - DAIKIN IND LTD
• See references of WO 2020194994A1

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 3919742 A1 20211208; **EP 3919742 A4 20220330**; CN 113330217 A 20210831; CN 113330217 B 20230110; JP 2020153345 A 20200924; JP 6766913 B2 20201014; WO 2020194994 A1 20201001

DOCDB simple family (application)
EP 20779510 A 20200108; CN 202080010442 A 20200108; JP 2019054819 A 20190322; JP 2020000319 W 20200108