

Title (en)  
SCROLL COMPRESSOR

Title (de)  
SPIRALVERDICHTER

Title (fr)  
COMPRESSEUR À SPIRALES

Publication  
**EP 4098877 A4 20230726 (EN)**

Application  
**EP 20916754 A 20201222**

Priority  
• JP 2020010489 A 20200127  
• JP 2020047805 W 20201222

Abstract (en)  
[origin: EP4098877A1] A scroll compressor has an axial gap between fixed spiral wrap (11b) and orbiting scroll bottom surface (12e) and between orbiting spiral wrap (12b) and fixed scroll bottom surface (11d), and is configured such that orbiting scroll end plate (12a) is pressed against outer peripheral wall (11c) of fixed scroll (11) in a region with angle of rotation larger than maximum involute angle of fixed scroll (11), and one of fixed scroll (11) and orbiting scroll (12) has a higher hardness than the other.

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

CPC (source: EP)  
**F04C 18/0215** (2013.01); **F04C 18/0246** (2013.01); **F04C 23/008** (2013.01); **F04C 27/005** (2013.01); **F04C 2230/92** (2013.01); **F05C 2251/10** (2013.01)

Citation (search report)  
• [X] US 2010196183 A1 20100805 - NI SHIMAO [US], et al  
• [X] JP H0392590 A 19910417 - TOYODA AUTOMATIC LOOM WORKS  
• [X] US 2003026721 A1 20030206 - MOROI TAKAHIRO [JP], et al  
• See also references of WO 2021153099A1

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)  
**EP 4098877 A1 20221207; EP 4098877 A4 20230726**; CN 115023550 A 20220906; JP 7454786 B2 20240325; JP WO2021153099 A1 20210805; WO 2021153099 A1 20210805

DOCDB simple family (application)  
**EP 20916754 A 20201222**; CN 202080094422 A 20201222; JP 2020047805 W 20201222; JP 2021574541 A 20201222