

Title (en)
SCROLL-TYPE MACHINE

Title (de)
MASCHINE VOM SCHNECKENTYP

Title (fr)
MACHINE DU TYPE À AXE HORIZONTAL

Publication
EP 3568571 B1 20211103 (EN)

Application
EP 18701983 A 20180109

Priority
• US 201762444962 P 20170111
• US 2018012872 W 20180109

Abstract (en)
[origin: WO2018132344A1] A scroll-type displacement machine has fixed and orbiting scrolls (20, 30) and an Oldham rotation prevention ring (50). A drive module (40) positioned between the orbiting scroll (30) and drive shaft (71) incorporates an eccentric drive system (42) and first and second counterweights (48, 49) for dynamic balancing. The motor (70), motor bearings, and motor shaft or drive shaft (71) form a separate modular unit attached to the compressor frame (80). A low-pressure port (21) is located at a radial outer portion of the fixed scroll and a high-pressure discharge port (39) is located in the floor of the orbiting scroll at its axis, with high pressure flow passing over and around the eccentric drive bearing and drive mechanism. The Oldham ring (50) is distributed on a lateral or radial plane of the scroll pair with a portion surrounding a portion of the fixed scroll (20) and another portion surrounding a portion of the orbiting scroll (30) and may be formed as four arcuate members (57, 58) arranged on two levels.

IPC 8 full level
F01C 17/06 (2006.01); **F04C 18/02** (2006.01)

CPC (source: EP)
F01C 17/066 (2013.01); **F04C 18/0215** (2013.01); **F04C 18/023** (2013.01); **F04C 23/008** (2013.01); **F04C 29/02** (2013.01); **F04C 2240/807** (2013.01)

Cited by
WO2023213782A1

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 2018132344 A1 20180719; EP 3568571 A1 20191120; EP 3568571 B1 20211103; ES 2905687 T3 20220411

DOCDB simple family (application)
US 2018012872 W 20180109; EP 18701983 A 20180109; ES 18701983 T 20180109