

Title (en)  
SCROLL COMPRESOR WITH DE-COUPABLE ORBITING COUNTER WEIGHT

Title (de)  
SPIRALVERDICHTER MIT ENTKOPPELBARER ORBITALAUSGLEICHSMASSE.

Title (fr)  
COMPRESSEUR À SPIRALE MUNI D'UN CONTREPOIDS DE TRAJECTOIRE ORBITALE DÉCOUPLABLE

Publication  
**EP 3810935 B1 20231129 (DE)**

Application  
**EP 18737172 A 20180622**

Priority  
EP 2018066799 W 20180622

Abstract (en)  
[origin: WO2019242865A1] The invention relates to a compressor comprising a compressor housing (12), a scroll compressor unit (22) which is arranged in the compressor housing (12) and has a first stationarily arranged compressor body (24) and a second compressor body (26) that is movably arranged relative to the stationarily arranged compressor body (24), an eccentric drive (242) for the scroll compressor unit (22), said eccentric drive having a driver (246) which is driven by a drive motor (222) and circulates about the central axis (44) of a drive shaft (228) on the orbital path (48), and an orbital path balancing mass (252) which counteracts an imbalance due to the compressor body (26) moving on the orbital path (48). The aim of the invention is to improve such a compressor such that the long-term stability of the guidance of the driver (246) in the driver receptacle can be ensured even at high rotational speeds. This is achieved in that the orbital balancing mass (252) is coupled to the eccentric drive (242) in such a way that said balancing mass moves on the orbital path (48) in a manner corresponding to the movement of the driver (246), but is decoupled with respect to the transmission of tilting moments to the driver, and that driver and orbital balancing mass can be effective in a state coupling the centrifugal force and in a state decoupling the centrifugal force.

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

CPC (source: EP)  
**F04C 18/0215** (2013.01); **F04C 29/0021** (2013.01); **F04C 29/0042** (2013.01); **F04C 2240/807** (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 2019242865 A1 20191226**; CN 112119218 A 20201222; CN 112119218 B 20230106; EP 3810935 A1 20210428; EP 3810935 B1 20231129

DOCDB simple family (application)  
**EP 2018066799 W 20180622**; CN 201880093478 A 20180622; EP 18737172 A 20180622