

Title (en)

FILTER-AND-THROTTLE UNIT FOR A SCROLL COMPRESSOR, AND SCROLL COMPRESSOR FOR A REFRIGERANT CIRCUIT

Title (de)

FILTER- UND DROSSELEINHEIT FÜR EINEN SCROLLKOMPRESSOR SOWIE SCROLLKOMPRESSOR FÜR EINEN KÄLTEMITTELKREISLAUF

Title (fr)

UNITÉ DE FILTRE ET D'ÉTRANGLEMENT POUR UN COMPRESSEUR À SPIRALE, ET COMPRESSEUR À SPIRALE POUR UN CIRCUIT FRIGORIFIQUE

Publication

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Application

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Priority

EP 2020078292 W 20201008

Abstract (en)

[origin: WO2022073611A1] Filter-and-throttle units (10) are known which comprise a housing (12) with housing walls (14, 16), and which comprise an opening (18) that acts as a throttle and is formed in one of the housing walls (14, 16). According to the invention, a filter element (24) is situated within the housing walls (14, 16) of the housing (12), as a result of which additional assembly steps are eliminated. Moreover, scroll compressors (26) for refrigerant circuits are known which have an orbiting displacement spiral (78) that engages in a fixed stator spiral (80). Said scroll compressors have an oil return channel (114) via which the high-pressure chamber (92) is fluidically connected to the low-pressure chamber (88), and a gas connection channel (118) via which the counter-pressure chamber (60) is fluidically connected to the high-pressure chamber (92). In order to simplify the assembly of these scroll compressors and extend their lifespan, according to the invention a filter-and-throttle unit (10) is situated in the gas connection channel (118) and/or in the oil return channel (114).

IPC 8 full level

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Citation (search report)

See references of WO 2022073611A1

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