

Title (en)

COMPRESSOR, IN PARTICULAR REFRIGERANT COMPRESSOR, REFRIGERATION MACHINE, AND METHOD FOR PRODUCING A COMPRESSOR

Title (de)

VERDICHTER, INSBESONDERE KÄLTEMITTELVERDICHTER, KÄLTEMASCHINE, SOWIE VERFAHREN ZUR HERSTELLUNG EINES VERDICHTERS

Title (fr)

COMPRESSEUR, EN PARTICULIER COMPRESSEUR FRIGORIFIQUE, MACHINE DE FROID, ET PROCÉDÉ DE FABRICATION D'UN COMPRESSEUR

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Application

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Abstract (en)

[origin: WO2022167502A1] The invention relates to a compressor (V), in particular a refrigerant compressor, comprising a low-pressure region (1) and a high-pressure region (2), wherein: a lubricant (S) is provided in the low-pressure region (1) for lubricating the compressor; a fluid (F) is conducted out of the low-pressure region (1) into the high-pressure region (2) and compressed, some of the lubricant (S) passing into the high-pressure region (2) together with the fluid (F) from the low-pressure region (1); a lubricant separator (21) for separating the lubricant (S) out of the fluid-lubricant mixture is provided in the high-pressure region (2); a lubricant return channel (3) for transporting the separated lubricant (S) from the high-pressure region (2) to the low-pressure region (1) is provided; and the lubricant return channel (3) comprises a fluid diode (31). The invention also relates to a refrigeration machine, comprising a compressor (V), a gas cooler (G), an expansion valve (E) and an evaporator (D), which are fluidically connected to one another, characterised by a compressor (V) according to at least one of the preceding claims. The invention further relates to a method for producing a compressor (V) according to at least one of the preceding claims, wherein the channel geometry definitive for the fluid diode (31), in particular the design of the inner wall of the lubricant return channel (3), is created by stamping, etching or eroding.

IPC 8 full level

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