

Title (en)
GAS REFRIGERATION MACHINE, METHOD FOR OPERATING A GAS REFRIGERATION MACHINE, AND METHOD FOR PRODUCING A GAS REFRIGERATION MACHINE WITH A COMMON AXIS

Title (de)
GASKÄLTEMASCHINE, VERFAHREN ZUM BETREIBEN EINER GASKÄLTEMASCHINE UND VERFAHREN ZUM HERSTELLEN EINER GASKÄLTEMASCHINE MIT EINER GEMEINSAMEN ACHSE

Title (fr)
MACHINE DE RÉFRIGÉRATION À GAZ, PROCÉDÉ DE FONCTIONNEMENT D'UNE MACHINE DE RÉFRIGÉRATION À GAZ ET PROCÉDÉ DE PRODUCTION D'UNE MACHINE DE RÉFRIGÉRATION À GAZ PRÉSENTANT UN AXE COMMUN

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Application
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Abstract (en)
[origin: WO2022090244A1] The invention relates to a gas refrigeration machine with the following features: an inlet (2) for gas to be cooled; a recuperator (10); a compressor (40) with a compressor inlet (41), said compressor inlet (41) being coupled to a first recuperator outlet (12); a heat exchanger (60); a turbine (70); and a gas outlet (5), wherein the compressor (40) has a compressor wheel (40a), and the turbine (70) has a turbine wheel (70a); the compressor wheel (40a) and turbine wheel (70a) are arranged on a common axis; a rotor (44) of a drive motor is arranged on the common axis, said rotor interacting with a stator of the drive motor; and the compressor wheel (40a) has a larger diameter than the turbine wheel (70a).

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