

Title (en)

HEATING AND REFRIGERATING MACHINE, ESPECIALLY A VUILLEUMIER HEAT PUMP OR A STIRLING ENGINE

Title (de)

WÄRME- UND KÄLTEMASCHINE, INSBESONDERE VUILLEUMIER-WÄRMEPUMPE ODER STIRLING-MASCHINE

Title (fr)

MACHINE THERMIQUE ET FRIGORIFIQUE, EN PARTICULIER POMPE A CHALEUR VUILLEUMIER OU MOTEUR STIRLING

Publication

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Application

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Abstract (en)

[origin: DE19904923A1] The invention relates to a heating and refrigerating machine, especially a Vuilleumier heat pump or a Stirling engine, in which a gas-air mixture is combusted in a combustion chamber and the exhaust gas radiates thermal energy to the heating head serving as a housing for the hot piston of the engine which forms a portion of the combustion chamber with a part of the outer surface thereof. By virtue of a porous burner and of the adaptation thereof to the heating head, the transmission of heat by means of convection and radiation is improved and a compact machine construction is attained which transmits heat in a highly efficient manner with low pollutant values over a broad modulation range of output.

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