

Title (en)
HEAT-PUMPING DEVICE AND THERMAL SEPARATION PLANT USING THIS DEVICE

Publication
EP 0211726 B1 19900418 (FR)

Application
EP 86401532 A 19860709

Priority
FR 8510591 A 19850710

Abstract (en)
[origin: EP0211726A1] 1. A heat pumping device operating with the external surroundings between two temperature levels, the device comprising a heat pump (1, 10) adapted to operate between two predetermined temperature levels and a trithermal heat thermodynamic transformer (2, 30) in which an energy flux flows and which has three energy exchange points at three different temperature levels (LT, MT, HT), the heat pump (1, 10) being connected between the three exchange points of the transformer (2, 30) to cause the device to operate with a temperature difference which differs from that of the heat pump (1, 10), characterized in that the transformer (2, 30) is of the turbocompressor type comprising a receiving part (31) driven by a driving part (32), the connecting points of the tubes of the receiving and driving parts being connected to so form the three exchange points (LT, MT, HT) that either the intake of the receiving part (31) is connected directly to the inlet of the driving part (32), or the outlet of the receiving part (31) is connected directly to the outlet of the driving part (32).

IPC 1-7
F24J 3/00; F25B 29/00

IPC 8 full level
F24J 3/00 (2006.01); **F25B 25/00** (2006.01); **F25B 29/00** (2006.01)

CPC (source: EP)
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