

Title (en)

INSTALLATION PRODUCING COLD BY MEANS OF ACCUMULATING AND DE-ACCUMULATING THE OUTPUT OF A MOTOR COMPRESSOR

Publication

EP 0156702 B1 19880518 (FR)

Application

EP 85400399 A 19850301

Priority

FR 8403423 A 19840306

Abstract (en)

[origin: EP0156702A1] 1. Refrigeration plant having in its refrigerant circuit motor compressors (2) mounted in parallel and having a common inlet manifold, a condenser (5), a liquid refrigerant container (6), cooling stations (7) and a unit (8) for storing the work of the motor compressors by establishing a reserve of cooling energy or cold made up by ice or a cooled or frozen eutectic mixture, referred to as accumulator fluid (17), and for releasing this reserve of cooling energy or accumulated cold or accumulator fluid (17), characterized in that the unit for storing and releasing the energy of the motor compressors (8) comprises an "exchanger-accumulator fluid-sub-cooler" (9) wherein the exchanger formed by an evaporating coil (14) feeding the compressors and the sub-exchanger formed by a sub-cooling coil of the liquid refrigerant supplied to the cooling stations (7) are immersed into an accumulator fluid (17) and both operate continuously in operation of the plant, the sub-cooler (15) continuously receiving liquid refrigerant from the liquid refrigerant container (6) and the exchanger (14) receiving liquid refrigerant from this container (6) through an expander (12) during the storing of work of the motor compressors (8) and receiving liquid refrigerant from the outlet of this sub-cooler (15) during release of work of the motor compressors (8).

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F25B 1/00

IPC 8 full level

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CPC (source: EP US)

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Cited by

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