

Title (en)

CARBON DIOXIDE COMPRESSION REFRIGERATION SYSTEM

Title (de)

KOHLENDIOXIDKOMPRESSIONSKÄLTEANLAGE

Title (fr)

SYSTÈME DE RÉFRIGÉRATION PAR COMPRESSION DE DIOXYDE DE CARBONE

Publication

**EP 3112776 B1 20240110 (EN)**

Application

**EP 16177348 A 20160630**

Priority

IT UB20151873 A 20150630

Abstract (en)

[origin: EP3112776A1] A refrigeration system (1) comprising a primary refrigeration circuit (2) that contains carbon dioxide and is provided with a compressor device (3), a primary cooling device (4), which is designed to perform a first cooling of the carbon dioxide leaving said compressor device (3), an expansion device (5) to expand the carbon dioxide and a heat-exchanger device (6) which accumulates heat in the expanded carbon dioxide supplied by the expansion device (5), and a secondary cooling device (10) which performs a second cooling of the carbon dioxide leaving the primary cooling device (4) to cause a further drop in the temperature of the carbon dioxide from said second temperature (t2) to a third temperature (t3), lower than said second temperature (t2), before the carbon dioxide is supplied to the expansion device (5).

IPC 8 full level

**F25B 7/00** (2006.01); **F25B 9/00** (2006.01); **F25B 27/00** (2006.01); **F25B 40/02** (2006.01); **F25B 49/02** (2006.01)

CPC (source: EP)

**F25B 7/00** (2013.01); **F25B 9/008** (2013.01); **F25B 27/00** (2013.01); **F25B 40/02** (2013.01); **F25B 49/02** (2013.01); **F25B 2700/21163** (2013.01)

Cited by

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Designated contracting state (EPC)

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DOCDB simple family (publication)

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