

Title (en)
COOLING APPARATUS COMPRISING A RADIANT PANEL AND AN EVAPORATIVE PANEL

Publication
EP 0046716 B1 19841003 (FR)

Application
EP 81401342 A 19810826

Priority
FR 8018582 A 19800827

Abstract (en)
[origin: ES8206002A1] Cold generating apparatus, wherein it comprises a cold storage enclosure filled with a material having a solid-liquid transmission in the vicinity of the operating temperature of the apparatus, a first panel forming a radiating surface, whose radiation drops into at least one of the atmospheric windows, a substantially vertical second panel immersed in the material of the cold storage enclosure, a pipe in the form of a coil on each of the first and second panels, said pipes being connected by plastically deformable couplings to form a closed circuit and a certain quantity of a fluid which is vaporizable under the operating conditions of the apparatus within the closed circuit, the assembly constituted by the first and second panels, the closed circuit and the heat transfer fluid forming a device of the heat pipe type serving as a thermal diode which only transmits heat in the direction from the storage enclosure to the radiating surface.

IPC 1-7
F25B 23/00; **F28D 15/00**

IPC 8 full level
F25B 23/00 (2006.01); **F28D 15/02** (2006.01)

CPC (source: EP US)
F25B 23/006 (2013.01 - EP US); **F28D 15/0266** (2013.01 - EP US); **F25D 2400/32** (2013.01 - EP US); **Y10S 62/01** (2013.01 - EP US); **Y10S 165/904** (2013.01 - EP US)

Cited by
US5921315A; EP0195704A1; FR2578638A1; EP0647307A4; US5845702A; EP2677261A1; CN103517620A; WO2013087664A1

Designated contracting state (EPC)
BE DE NL

DOCDB simple family (publication)
EP 0046716 A2 19820303; **EP 0046716 A3 19820317**; **EP 0046716 B1 19841003**; AU 548818 B2 19860102; AU 7423381 A 19820304; DE 3166493 D1 19841108; ES 504979 A0 19820701; ES 8206002 A1 19820701; FR 2489490 A1 19820305; FR 2489490 B1 19840413; US 4452051 A 19840605

DOCDB simple family (application)
EP 81401342 A 19810826; AU 7423381 A 19810817; DE 3166493 T 19810826; ES 504979 A 19810826; FR 8018582 A 19800827; US 29619481 A 19810825