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[21] Application No.: GCC/P/2001/1135 [22] Filing Date: 13/01/2001 [30] Priority: [31] Priority No. [32] Priority date [33] State 10011540.3 01/3/2000 DE [72] Inventors: 1- Rainer Rudischer, 2- Ingo Rittmuller [73] Owner: Institut für Luft- und Kältetechnik gemeinnützige Gesellschaft mbH, Bertolt- Brecht-Allee 20, Dresden 01309, Germany [74] Agent: Suleiman Ibrahim Al-Ammar	[51] Int. Cl. ⁷ : F25D 16/00; F25B 27/00 [56] Cited Documents: - DE 4201996 A1 (SCHARMER) 29 July 1993 - DE 19627096 A1 (GET MBH) 15 January 1998

[54] SOLAR COOLING CONTAINER

[57] Abstract: The invention refers to a solar cooling container, whose power supply is achieved exclusively via photovoltaic generators, and which is to be used for the cooling of foods or medicines or technical devices in intensively sunny and warm regions. The power supply to the cooling container subject of the present invention is achieved exclusively via photovoltaic generators. At least one compression refrigeration system is used to supply the refrigeration for a dynamically ventilated cold storage system, preferably with latent storage pipes. The cold storage system can comprise a parallel arrangement of latent storage pipes, which are connected in parallel groups and are supplied via a thermostatic expansion valve and following injection distribution. For dynamic ventilation the latent storage pipes are arranged with a clearance to the inner wall of the cooling container and are placed in the stream of several axial ventilators. To this end there is an air distribution box corresponding to the latent storage pipes at their one end. Air outlet openings are arranged at the other end. The latent storage pipes are shielded from the inner space of the cooling container over their full length by way of panelling elements. This arrangement achieves a good flushing of the whole inner space of the cooling container.

No. of claims: 5

No. of figures: 3

