

Title (en)
PASSIVE REFRIGERATION SYSTEM FOR THE COLD CHAIN INDUSTRY

Title (de)
PASSIVES KÜHLSYSTEM FÜR DIE KÜHLKETTENINDUSTRIE

Title (fr)
SYSTÈME DE RÉFRIGÉRATION PASSIF POUR L'INDUSTRIE DE LA CHAÎNE DU FROID

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Application
EP 18784149 A 20180413

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Abstract (en)
[origin: WO2018187857A1] A passive refrigeration box for controlled refrigeration of a product is provided, the refrigeration box comprising: an outer box, the outer box including an outer insulation layer; an inner box, the inner box including an inner insulation layer, and a thermal shield on an outside of the inner insulation layer, the inner box and the outer box defining a vapour channel therebetween; and a thermal link, the thermal link including an thermal layer and a plurality of heat pipes or thermosyphons, the thermal layer and a top section of the inner box defining a coolant chamber, the coolant chamber including a coolant chamber access, the thermal layer and a bottom section of the inner box defining a load chamber, the load chamber including a load chamber access, each heat pipe or thermosyphon having a condenser section disposed in the coolant chamber and an evaporator section disposed in the load chamber and extending through the thermal layer.

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