

Title (en)

VACUUM INSULATED STRUCTURE WITH THERMAL BRIDGE BREAKER WITH HEAT LOOP

Title (de)

VAKUUMISOLIERTE STRUKTUR MIT WÄRMEBRÜCKENUNTERBRECHER MIT WÄRMESCHLEIFE

Title (fr)

STRUCTURE ISOLÉE SOUS VIDE AVEC DISJONCTEUR À PONT THERMIQUE AVEC BOUCLE DE CHALEUR

Publication

EP 3717847 A1 20201007 (EN)

Application

EP 17933690 A 20171130

Priority

US 2017063947 W 20171130

Abstract (en)

[origin: WO2019108204A1] A refrigerator includes a wrapper having an opening with a front edge. A liner includes an opening and a front edge. A thermal bridge interconnects the wrapper and the liner to form a vacuum insulated cavity therebetween. The thermal bridge includes an outwardly opening channel and first and second inwardly opening channels. The front edge of wrapper is received in the first inwardly opening channel, and the front edge of the liner is received in the second inwardly opening channel. The second inwardly opening channel is inset relative to the first inwardly opening channel on the thermal bridge. A conduit is disposed within the outwardly opening channel and is configured to circulate a heated medium. The wrapper and liner are contemplated to be comprised of conductive materials, such sheet metal, while the thermal bridge is comprised of a thermally resistant material, such as a polymeric material.

IPC 8 full level

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CPC (source: EP US)

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Designated extension state (EPC)

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