

Title (en)

ARTICLE COMPRISING A TEMPERATURE-CONDITIONED SURFACE, THERMOELECTRIC CONTROL UNIT, AND METHOD FOR TEMPERATURE-CONDITIONING THE SURFACE OF AN ARTICLE

Title (de)

ARTIKEL MIT EINER TEMPERATURKONDITIONIERTEN OBERFLÄCHE, THERMOELEKTRISCHE STEUEREINHEIT UND VERFAHREN ZUR TEMPERATURKONDITIONIERUNG DER OBERFLÄCHE EINES ARTIKELS

Title (fr)

ARTICLE COMPRENANT UNE SURFACE À CLIMATISATION DE TEMPÉRATURE, UNITÉ DE COMMANDE THERMOÉLECTRIQUE ET PROCÉDÉ DE CLIMATISATION DE LA SURFACE D'UN ARTICLE

Publication

**EP 3515256 A1 20190731 (EN)**

Application

**EP 17853720 A 20170918**

Priority

- US 201662398257 P 20160922
- US 201715705829 A 20170915
- US 2017052070 W 20170918

Abstract (en)

[origin: WO2018057462A1] The present invention provides systems, methods, and articles for temperature conditioning a surface. An article is formed from a first layer having a plurality of openings and a second layer having a corresponding plurality of openings. At least one interior chamber constructed and configured to retain a fluid without leaking is defined between an interior surface of the first layer and an interior surface of the second layer. At least one flexible fluid supply line delivers the fluid to the at least one interior chamber. At least one flexible fluid return line removes the fluid from the at least one interior chamber. At least one control unit that is operable to selectively cool or heat the fluid is attached to the at least one flexible fluid supply line and the at least one flexible fluid return line.

IPC 8 full level

**A47C 21/04** (2006.01); **A47C 27/14** (2006.01); **A47C 31/00** (2006.01)

CPC (source: EP)

**A47C 21/044** (2013.01); **A47C 21/048** (2013.01); **A47C 27/22** (2013.01); **A47C 31/006** (2013.01)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2018057462 A1 20180329**; **WO 2018057462 A4 20180426**; CN 109982610 A 20190705; EP 3515256 A1 20190731; EP 3515256 A4 20200422

DOCDB simple family (application)

**US 2017052070 W 20170918**; CN 201780071861 A 20170918; EP 17853720 A 20170918