

Title (en)
AUTONOMOUS COOLING VEST

Title (de)
AUTONOME KÜHLWESTE

Title (fr)
GILET DE RÉFRIGÉRATION AUTONOME

Publication
EP 3677138 A1 20200708 (EN)

Application
EP 18850901 A 20180417

Priority
• BR 102017018891 A 20170903
• BR 2018050112 W 20180417

Abstract (en)
An autonomous cooling vest to cool its user by evaporating a coolant in contact with the user's skin surface is described. Multifunctional panels attached to the vest in the parts corresponding to the human body are permeable to ambient air and contain a liquid retaining screen kept in contact with the user's skin. The cooling support system automatically controls the transfer of the coolant liquid contained in a reservoir to each screen and allows the user to adjust the operation of the system to activate and deactivate the ventilation on the liquid retained in the screens and adjust the amount of liquid dispersed over the screens as needed. The flow of air ventilated by the fans and the air that permeates through the referred multifunctional panels favor the evaporation of the liquid retained in the screens, promoting the user's cooling.

IPC 8 full level
A41D 13/005 (2006.01); **A62B 17/00** (2006.01)

CPC (source: BR EP US)
A41D 1/04 (2013.01 - US); **A41D 13/00** (2013.01 - BR); **A41D 13/002** (2013.01 - BR); **A41D 13/0025** (2013.01 - US); **A41D 13/005** (2013.01 - BR); **A41D 13/0053** (2013.01 - BR US); **A41D 13/0056** (2013.01 - BR EP US); **A41D 13/0158** (2013.01 - BR); **A41D 31/02** (2013.01 - US); **A62B 17/00** (2013.01 - EP); **A62B 17/005** (2013.01 - US); **F25B 19/00** (2013.01 - US)

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)
EP 3677138 A1 20200708; **EP 3677138 A4 20210519**; BR 102017018891 A2 20190326; BR 102017018891 B1 20231205; US 2020345087 A1 20201105; WO 2019041009 A1 20190307

DOCDB simple family (application)
EP 18850901 A 20180417; BR 102017018891 A 20170903; BR 2018050112 W 20180417; US 201816643887 A 20180417