

Title (en)  
THERMAL MANAGEMENT SHIRT

Title (de)  
THERMOMANAGEMENT HEMD

Title (fr)  
MAILLOT À GESTION THERMIQUE

Publication  
**EP 4101326 A1 20221214 (EN)**

Application  
**EP 22155073 A 20220203**

Priority  
JP 2021095828 A 20210608

Abstract (en)  
A shirt includes a heat retaining fabric and a heat dissipating fabric. The heat retaining fabric (2, 9, 3a, 3b) is configured to be arranged in a portion of the front of the shirt that covers at least a part of the pectoralis major muscle, in an upper portion of the back of the shirt, and in portions of the shirt, each of which covers at least a part of the upper arm, when the shirt is worn. The heat dissipating fabric (8a, 8b, 5a, 5b) is configured to be arranged in portions of the back of the shirt, each of which extends from the shoulder, passes through the side of the dorsum, covers at least a part of the infraspinatus muscle, and is connected to the axillary region, when the shirt is worn. The heat retaining fabric (9) arranged in the upper portion of the back of the shirt is separated from the heat retaining fabric (3a, 3b) arranged in the portions of the shirt, each covering at least a part of the upper arm, by the heat dissipating fabric (8a, 8b, 5a, 5b) arranged in the portions of the back of the shirt, each extending from the shoulder, passing through the side of the dorsum, covering at least a part of the infraspinatus muscle, and being connected to the axillary region. With this configuration, the heat retaining fabric and the heat dissipating fabric are arranged respectively in the portions of the shirt that are to be used for heat retention and heat dissipation during a warm-up for sports.

IPC 8 full level  
**A41D 13/002** (2006.01); **A41D 1/04** (2006.01); **A41D 13/00** (2006.01); **A41D 27/28** (2006.01); **A41D 31/06** (2019.01); **A41D 31/12** (2019.01)

CPC (source: EP)  
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Citation (applicant)  
• JP 2005248389 A 20050915 - KANEBO LTD, et al  
• JP 2010535296 A 20101118  
• JP 2020133093 A 20200831 - OKAMOTO CO LTD  
• "Fiber Handbook", 15 December 2004, MARUZEN CO., LTD., pages: 462

Citation (search report)  
• [XA] WO 2018213528 A1 20181122 - NIKE INNOVATE CV [US], et al  
• [XA] EP 3560366 A1 20191030 - SALOMON SAS [FR]

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

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4101326 A1 20221214**; **EP 4101326 B1 20240529**; JP 2022187696 A 20221220; JP 7017661 B1 20220208

DOCDB simple family (application)  
**EP 22155073 A 20220203**; JP 2021095828 A 20210608