

Title (en)  
Thermal protection fabric

Title (de)  
Wärmeschutzgewebe

Title (fr)  
Tissu à protection thermique

Publication  
**EP 1880620 A2 20080123 (EN)**

Application  
**EP 07112602 A 20070717**

Priority  
ES 200601973 A 20060718

Abstract (en)  
It comprises two layers of stable fiber thread: a high thermal protection, low absorption outer layer (1), and a high absorption, fire-resistant inner layer (2). Both layers (1, 2) are arranged spaced apart by an air layer (3). The outer layer (1) may be made out of meta-aramid, para-aramid, polyamideimide, modacrylic and mixtures thereof; and the inner layer (2) may be made out of fire-resistant viscose, treated cotton or polybenzimidazole or mixtures with meta-aramid, para-aramid, polyamideimide and modacrylic. The fabric may be knitted fabric or double cloth fabric.

IPC 8 full level  
**D03D 11/00** (2006.01); **A41D 31/00** (2006.01); **D03D 15/12** (2006.01); **D04B 1/16** (2006.01)

CPC (source: EP ES US)  
**A41D 31/00** (2013.01 - ES); **A41D 31/085** (2019.02 - EP); **A41D 31/102** (2019.02 - EP); **A41D 31/125** (2019.02 - EP);  
**A41D 31/265** (2019.02 - EP); **D03D 11/00** (2013.01 - EP); **D03D 15/513** (2021.01 - EP ES US); **D04B 1/16** (2013.01 - EP);  
**D04B 21/00** (2013.01 - ES); **D10B 2403/0114** (2013.01 - EP)

Citation (applicant)  
• WO 0164985 A2 20010907 - MARCANADA INC [CA], et al  
• WO 2004037027 A1 20040506 - DU PONT [US], et al

Citation (third parties)  
Third party :  
• DE 60216801 T2 20071108 - KERMEL [FR]  
• US 2006046022 A1 20060302 - BADER YVES [FR], et al  
• DE 10248999 B3 20040506 - THEODOLF FRITSCHKE GMBH & CO [DE]

Cited by  
CN102150962A; FR3030583A1; CN104372497A; ITNA20090039A1; CN104389100A; CN105951266A; GB2478854A; GB2478854B;  
BE1024793B1; EP2610376A3; GB2559772A; WO2022110012A1; WO2011033145A1; WO2016102873A1; US11905630B2; WO2011114108A3;  
WO2011143076A3; WO2020168437A1

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)  
AL BA HR MK YU

DOCDB simple family (publication)  
**EP 1880620 A2 20080123; EP 1880620 A3 20081126; ES 2327883 A1 20091104; ES 2327883 B1 20100906**

DOCDB simple family (application)  
**EP 07112602 A 20070717; ES 200601973 A 20060718**