

Title (en)
Impact protective multi-layered fabric

Title (de)
Mehrschichtiges Stoßschutzgewebe

Title (fr)
Tissu multicouche protecteur contre les impacts

Publication
EP 3032210 B1 20170719 (EN)

Application
EP 14382500 A 20141209

Priority
EP 14382500 A 20141209

Abstract (en)
[origin: EP3032210A1] The invention refers to an impact protective multi-layered fabric (9) comprising a pile of layers of a dry-fabric material, wherein at least one of said layers (1) is conformed to have least one closed fold (3) extending longitudinally across the layer (1), said closed fold (3) having first and second walls (5,6) substantially facing each other, and wherein said first and second walls (5,6) are stitched to each other by means of at least one yarn (7) of a dry-fabric material. Preferably, the first and second walls (5,6) of the closed fold, are stitched to each other by means of two or more stitching lines (8) are arranged one above the other within the closed fold (3), such as when an object (2) impact on the fabric layer (1), the stitches (7) of the stitching lines (8) break sequentially one after the other, such the energy absorption capability of the layer is increased in a simple manner and without increasing its weight.

IPC 8 full level
F41H 5/04 (2006.01); **D03D 1/00** (2006.01); **D03D 11/02** (2006.01); **D03D 15/267** (2021.01); **D03D 15/283** (2021.01); **D03D 15/50** (2021.01)

CPC (source: CN EP US)
D03D 1/00 (2013.01 - CN); **D03D 1/0052** (2013.01 - EP US); **D03D 13/00** (2013.01 - CN); **D03D 15/00** (2013.01 - CN);
F41H 5/0485 (2013.01 - EP 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

DOCDB simple family (publication)
EP 3032210 A1 20160615; EP 3032210 B1 20170719; CN 105696144 A 20160622; CN 105696144 B 20190604; ES 2650377 T3 20180118;
US 2016161223 A1 20160609

DOCDB simple family (application)
EP 14382500 A 20141209; CN 201510903682 A 20151209; ES 14382500 T 20141209; US 201514963535 A 20151209