Title (en)

Lanyard and manufacturing method thereof

Title (de)

Sicherheitslaufleine und ihr Herstellungsverfahren

Title (fr)

Longe de sécurité et son procédé de fabrication

Publication

EP 2468933 B1 20150722 (FR)

Application

EP 11354079 A 20111214

Priority

FR 1005042 A 20101222

Abstract (en)

[origin: EP2468933A1] The safety belt (1) comprises a tubular sheath (10) made of non-stretchable material, and a set of elastic thread related to the sheath. The safety belt is movable by elasticity between a rest position and an extended position. The elastic thread defines longitudinal areas of weaving in which threads are woven on single face (11, 12) of the sheath so that the belt has a snail shape in rest position. Each longitudinal areas of weaving is adapted to form, in the resting position, bending areas (Z1, Z2.....Zn) in which the elastic threads are folded on each other. The safety belt (1) comprises a tubular sheath (10) made of non-stretchable material, and a set of elastic thread related to the sheath. The safety belt is movable by elasticity between a rest position and an extended position. The elastic thread defines longitudinal areas of weaving in which threads are woven on single face (11, 12) of the sheath so that the belt has a snail shape in rest position. Each longitudinal areas of weaving is adapted to form, in the resting position, bending areas (Z1, Z2.....Zn) in which the elastic threads are folded on each other. Each bending areas form a circular sector, where a center (C1, C2....Cn) of the circular sector is located on the side of the face of the sheath. An axial dimension of longitudinal areas of weaving with elastic threads is 4 cm. The longitudinal areas of weaving with elastic threads extend alternately on one and other of the faces of the sheath, and extend over entire axial dimension of the belt. Each bending area extends along an angle of 180-270[deg] so that two connecting lines (L1, L2...Ln) between consecutive weaving areas are adjacent. The connecting lines between consecutive weaving areas are aligned, in the rest position, along a longitudinal axis of the belt. The elastic threads form 5-20% chain threads (CH11 + CH2, CH12 + CH2) for a given weaving area. An independent claim is included for a process for fabricating a safety belt.

IPC 8 full level

D03D 3/02 (2006.01); **A62B 35/04** (2006.01); **D03D 3/00** (2006.01); **D03D 3/08** (2006.01); **D03D 11/02** (2006.01); **D03D 13/00** (2006.01); **D03D 15/56** (2021.01)

CPC (source: EP US)

A62B 35/0075 (2013.01 - EP US); **D03D 3/005** (2013.01 - EP US); **D03D 3/02** (2013.01 - EP US); **D03D 3/08** (2013.01 - EP US); **D03D 11/02** (2013.01 - EP US); **D03D 13/00** (2013.01 - EP US); **D03D 15/56** (2021.01 - EP US); A62B 35/04 (2013.01 - EP US); Y10T 428/1362 (2015.01 - EP US); Y10T 442/3024 (2015.04 - EP US); Y10T 442/3179 (2015.04 - EP US)

Cited by

US2015231424A1

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 2468933 A1 20120627; **EP 2468933 B1 20150722**; CN 102587031 A 20120718; CN 102587031 B 20141210; FR 2969500 A1 20120629; FR 2969500 B1 20130125; US 2012161376 A1 20120628; US 8967600 B2 20150303

DOCDB simple family (application)

EP 11354079 A 20111214; CN 201110463274 A 20111222; FR 1005042 A 20101222; US 201113334309 A 20111222