

Title (en)

Descender braking device for rope climbing and descent

Title (de)

Abrutschblockiergerät für das Hoch- und Runterklettern an einem Seil

Title (fr)

Appareil bloqueur descendeur pour la remontée et la descente sur corde

Publication

EP 2399651 B1 20160817 (FR)

Application

EP 11354034 A 20110614

Priority

FR 1002636 A 20100623

Abstract (en)

[origin: EP2399651A1] The apparatus has a body comprising an attachment unit connected to a harness of user, and a blocker device unblocked when loaded. The device is placed at outside of the body and includes a chain of metal links (18) formed by a succession of friction elements (19) articulated with each other by connection rods (21) for forming a series of gaps for zigzag passage of rope (23). Upper part of the chain of links cooperates with a blocking initiating unit i.e. torsion spring (25) of the blocking device.

IPC 8 full level

A63B 29/02 (2006.01); **A62B 1/14** (2006.01)

CPC (source: EP US)

A62B 1/14 (2013.01 - EP US); **Y10T 24/39** (2015.01 - EP US); **Y10T 24/398** (2015.01 - EP US)

Citation (examination)

FR 2409765 A1 19790622 - FREDSTAD FINN [NO]

Cited by

GB2531229A; GB2531229B; US2016114199A1; US11198026B2; WO2015025117A1

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 2399651 A1 20111228; **EP 2399651 B1 20160817**; AU 2011202960 A1 20120119; AU 2011202960 B2 20160512; CN 102407005 A 20120411; CN 102407005 B 20150603; ES 2593961 T3 20161214; FR 2961709 A1 20111230; FR 2961709 B1 20121207; US 2011315480 A1 20111229; US 8950550 B2 20150210

DOCDB simple family (application)

EP 11354034 A 20110614; AU 2011202960 A 20110621; CN 201110238172 A 20110623; ES 11354034 T 20110614; FR 1002636 A 20100623; US 201113164248 A 20110620