

Title (en)  
Rope ascender with increased mechanical strength

Title (de)  
Steigklemme mit verstärkter mechanischer Festigkeit

Title (fr)  
Bloqueur pour corde à tenue mécanique renforcée

Publication  
**EP 2450085 A1 20120509 (FR)**

Application  
**EP 11354047 A 20110921**

Priority  
FR 1004333 A 20101104

Abstract (en)  
The ascender (10) has a fixed metal body (12) made of aluminum and provided with a spout for passage of a cord (11). A movable trigger (13) is pivotally mounted around a transversal axis of the body between an inactive position in which the cord is introduced in the spout, and an active position in which the cord is blocked at bottom of the spout. The trigger includes a cam-shaped surface in contact with the cord. An internal wall of the spout is covered by an anti-wear unit made of material different from the aluminum and formed of a metal sheet connected on the wall by assembly pins.

Abstract (fr)  
Bloqueur sur corde comprenant un corps (12) en aluminium doté d'une goulotte (16) de passage de la corde, et une gâchette (13) pivotante munie d'une came de coincement de la corde. La paroi interne de la goulotte (16) est recouverte par une tôle (20) ayant une dureté supérieure à celle de l'aluminium, et/ou un coefficient de frottement inférieur à celui de l'aluminium.

IPC 8 full level  
**A62B 1/14** (2006.01); **A63B 29/02** (2006.01)

CPC (source: EP)  
**A62B 1/14** (2013.01); **A63B 29/02** (2013.01)

Citation (applicant)  
FR 2589211 A1 19870430 - PETZL ETS [FR]

Citation (search report)  
• [A] FR 2589211 A1 19870430 - PETZL ETS [FR]  
• [A] US 3927734 A 19751223 - BRUNETTE EUGENE J, et al  
• [A] US 4034828 A 19770712 - ROSE CLARENCE W, et al  
• [A] EP 2216075 A1 20100811 - ZEDEL [FR]  
• [A] US 2006102421 A1 20060518 - DIONNE JEFFREY S [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

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 2450085 A1 20120509; EP 2450085 B1 20130710**; CN 102526907 A 20120704; CN 102526907 B 20151028; ES 2427248 T3 20131030; FR 2967077 A1 20120511; FR 2967077 B1 20130614; TW 201219082 A 20120516; TW I546099 B 20160821

DOCDB simple family (application)  
**EP 11354047 A 20110921**; CN 201110345327 A 20111104; ES 11354047 T 20110921; FR 1004333 A 20101104; TW 100140095 A 20111103