

Title (en)

Systems for assisted braking belay with a cam-clutch mechanism

Title (de)

Bremssysteme für das assistierte Abseilen mit einem Nocken-Kupplungsmechanismus

Title (fr)

Systèmes de fixation de freinage assisté avec un mécanisme d'embrayage de came

Publication

**EP 2777773 A3 20170125 (EN)**

Application

**EP 14159574 A 20140313**

Priority

- US 201361785715 P 20130314
- US 201414206444 A 20140312

Abstract (en)

[origin: EP2777773A2] One embodiment of the present invention relates to an assisted braking belay system (100) with a housing (120), camming mechanism (140), and clutch mechanism (160). The housing (120) may include a substantially enclosed rope channel (128) through which a rope (110) may extend to the climber. The camming mechanism (140) is moveably coupled to the housing (120) and configured to automatically engage a camming surface (142) upon the rope (110) across the rope channel (128) if the rope (110) translates through the channel (128) at a particular acceleration rate. The clutch mechanism (160) may function as a secondary locking mechanism to engage the camming surface (142) of the camming mechanism (140) upon the rope (110) across the rope channel (128).

IPC 8 full level

**A62B 1/14** (2006.01); **A62B 1/10** (2006.01)

CPC (source: EP)

**A62B 1/10** (2013.01); **A62B 1/14** (2013.01)

Citation (search report)

- [X] WO 2011135204 A1 20111103 - PELTIER MARCEL JOSE [FR]
- [X] FR 2922200 A1 20090417 - PELTIER MARCEL JOSE [FR]
- [X] FR 2951952 A1 20110506 - PELTIER MARCEL JOSE [FR]
- [I] US 5060758 A 19911029 - ISHIOKA SHIGEO [JP]
- [X] US 4934660 A 19900619 - NELSON DONALD D [US]
- [A] US 5360083 A 19941101 - HEDE JEAN-MARC [FR]

Cited by

FR3139727A1; EP4129419A1; FR3125971A1; EP4338807A1; FR3139726A1; DE102022104765A1; DE102021102673A1; US11878651B2; EP3391060B1

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 2777773 A2 20140917; EP 2777773 A3 20170125**

DOCDB simple family (application)

**EP 14159574 A 20140313**