

Title (en)

A self-locking descender and a method for descending a load on a rope

Title (de)

Abseilgerät mit Selbstverriegelung und Verfahren zum Abseilen einer Last an einem Seil

Title (fr)

Descendeur autobloquant et procédé pour faire descendre une charge avec une corde

Publication

EP 2246100 A1 20101103 (EN)

Application

EP 09461510 A 20090501

Priority

EP 09461510 A 20090501

Abstract (en)

A self-locking descender for controlling the movement of a load on a rope, comprising rope guiding means (200) comprising a rotatable head (201) with a clamping element (202) for clamping the rope (100) to a resistive element (203), wherein the rope guiding means (200) further comprise a pulley (204), around which the rope (100) is to be guided, the pulley (204) movable between a first position and a second position, wherein the pulley (204) is coupled with the rotatable head (201) by a coupling mechanism (300), such that when the descender is loaded, when the pulley (204) is in the first position, the clamping element (202) of the rotatable head (201) clamps the rope (100) towards the resistive element (203) so that the rope movement is blocked, and when the pulley (204) is in the second position, the clamping element (202) of the rotatable head (201) is distanced from the resistive element (203) so that the rope (100) movement is enabled, wherein the pulley (204) is movable from the first position to the second position by pulling the free end (102) of the rope (100), and when the free end (102) of the rope (100) is not pulled, the pulley (204) is automatically movable from the second position to the first position due to the friction force between the rotatable head (201) and the rope (100).

IPC 8 full level

A62B 1/14 (2006.01)

CPC (source: EP)

A62B 1/14 (2013.01)

Citation (applicant)

- US 5850893 A 19981222 - HEDE JEAN MARC [FR], et al
- EP 2018894 A1 20090128 - ZEDEL [FR]
- DE 2602092 A1 19770317 - MUBIR AG MASCH & APP

Citation (search report)

- [X] DE 2602092 A1 19770317 - MUBIR AG MASCH & APP
- [AD] US 5850893 A 19981222 - HEDE JEAN MARC [FR], et al
- [AD] EP 2018894 A1 20090128 - ZEDEL [FR]

Cited by

IT201700067165A1; CN106163618A; EP3074093A4; US11065477B2; US9884209B2; EP2554219A1; WO2014043948A1; WO2018228835A1; WO2014040331A1; WO2015017853A1; US10584018B2; US9415245B2; US2015034894A1; US9427606B2; EP3027283A4; CN110975179A

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