

Title (en)

HOIST WITH SAFETY LOCK AND RELEASING SYSTEM

Title (de)

WINDE MIT SICHERHEITSSCHLOSS UND LÖSESYSTEM

Title (fr)

DISPOSITIF DE LEVAGE AYANT UN VERROU DE SÉCURITÉ ET SYSTÈME DE LIBÉRATION

Publication

EP 3335685 A1 20180620 (EN)

Application

EP 16204008 A 20161214

Priority

EP 16204008 A 20161214

Abstract (en)

A hoist (1) where said hoist comprises a trolley (3) with one or more wheels arranged to run along a first running surface (2a) of a rail (2). Said trolley (3) comprises one or more drive wheels (14) and one or more suspension wheels (11). The one or more suspension wheels (11) are rotatably fixed on a cart (7). One or more drive wheels (14) are rotatably fixed to a bracket (8) and said bracket (8) is pivotably connected via a hinge (16) to the cart (7). Said trolley (3) comprises a spring member (21) having a first end connected to the cart (7) and second end connected to the bracket (8). The spring member (21) is provided for pressing the one or more drive wheels (14) against a running surface (2b) on the rail (2). A shaft (22) with an eccentric cam (23) is rotatably mounted in the bracket (8). The eccentric cam (23) acts upon rotation against an edge surface (27) on the cart (7) for rotation of the bracket (8) in relation to the cart in the hinge (16). Hereby said one or more drive wheels (14) are released from contact with the running surface (2b), whereby the one or more suspension wheels (11) are able to rotate freely along the rail (2), e.g. by moving the hoist manually in the rail (2). This provides a safety locking and releasing system for the hoist in relation to the rail (2).

IPC 8 full level

A61G 7/10 (2006.01)

CPC (source: EP)

A61G 7/1042 (2013.01); **A61G 7/1015** (2013.01)

Citation (search report)

- [A] EP 1840073 A1 20071003 - INVACARE INT SARL [CH]
- [A] US 4372452 A 19830208 - MCCORD LAWLESS D
- [A] US 3498236 A 19700303 - MEEK LONNIE E

Cited by

KR20220074443A; US2021298976A1; US11542128B2

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 3335685 A1 20180620; **EP 3335685 B1 20200129**; WO 2018108221 A2 20180621; WO 2018108221 A3 20180802

DOCDB simple family (application)

EP 16204008 A 20161214; DK 2017050431 W 20171214