Title (en)

ELECTROMECHANICAL PARACHUTE ACTIVATION SYSTEM FOR AN ELEVATOR APPARATUS

Title (de)

ELEKTROMECHANISCHES AKTIVIERUNGSVORRICHTUNG EINES ARRETIERUNGSSYSTEM FÜR HUBVORRICHTUNGEN

Title (fr)

SYSTÈME ÉLECTROMÉCANIQUE D'ACTIVATION DE PARACHUTES POUR DISPOSITIFS D'ÉLÉVATION

Publication

EP 4043379 A1 20220817 (EN)

Application

EP 22382120 A 20220215

Priority

ES 202130121 A 20210216

Abstract (en)

Electromechanical parachute activation system for elevating devices, comprising an activation plate (2), a braking element (3), a trigger (5) adapted to cooperate with an electromagnet (8) and with the activation plate (2) through a protruding element (4) thereof, a first spring (6), a cam (7) attached to one end of the trigger (5) and provided with actuation means (9), wherein the trigger (5), the first spring (6), the cam (7) and the means (9) cooperate so that when the electromagnet (8) is activated, the trigger blocks the movement of the protruding element (4) separating the plate (2) from the guide, when the electromagnet is not activated and there is no movement of the elevating device, the first spring (6) exerts a force such that the trigger (5) pivots on the protruding element (4) but does not release it and when there is a movement of the car, the cam (7) pivots on the guide so that the trigger (5) releases the protruding element (4). In this way, the system can be kept in stand-by without any consumption and it is possible to reset the system simply by powering the electromagnet again.

IPC 8 full level

B66B 5/18 (2006.01)

CPC (source: EP ES)

B66B 5/18 (2013.01 - EP); **B66B 5/20** (2013.01 - ES)

Citation (applicant)

EP 1902993 A1 20080326 - WITTUR AG [DE]

Citation (search report)

- [A] US 2011226560 A1 20110922 - HUSMANN JOSEF [CH]
- [A] DE 102013111385 A1 20150416 - LIENEMANN MANFRED [DE]

Cited by

WO2023134982A1

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 4043379 A1 20220817; **EP 4043379 B1 20230315**; ES 2921363 A1 20220824; ES 2921363 B2 20230414; ES 2944833 T3 20230626

DOCDB simple family (application)

EP 22382120 A 20220215; ES 202130121 A 20210216; ES 22382120 T 20220215