

Title (en)  
MONITORING DEVICE FOR DETECTING SLACK IN AN ARRANGEMENT COMPRISING A MULTIPLICITY OF FLEXIBLE SUSPENSION AND TRACTION MEDIA (STM) OF AN ELEVATOR

Title (de)  
ÜBERWACHUNGSVORRICHTUNG ZUR ERKENNUNG VON LOCKERUNG IN EINER ANORDNUNG MIT EINER MULTIPLIZITÄT EINES AUFHÄNGUNGS- UND TRAKTIONSMEDIUMS EINES AUFZUGS

Title (fr)  
DISPOSITIF DE SURVEILLANCE POUR DÉTECTER LE MOU DANS UN AGENCEMENT COMPRENANT UNE MULTIPLICITÉ DE SUPPORTS DE SUSPENSION SOUPLE ET DE TRACTION (STM) D'UN ASCENSEUR

Publication  
**EP 3121140 A1 20170125 (EN)**

Application  
**EP 15178151 A 20150723**

Priority  
EP 15178151 A 20150723

Abstract (en)  
A monitoring device (1) for detecting slack in an arrangement comprising a multiplicity of flexible suspension and traction media STM (108) of an elevator arrangement is presented. The monitoring device (1) comprises an elongate engagement and actuation part (3) and a sensor (7). The elongate engagement and actuation part (3) comprises at least two engagement protrusions extending in a protrusion direction. The elongate engagement and actuation part (3) is arranged and adapted such that, when the elongate engagement and actuation part (3) is arranged adjacent to each of the multiplicity of flexible STMs (108), the at least two engagement protrusions each mechanically interact with one of the flexible STMs (108) such that, when a slack occurs in one of the flexible STMs (108), a resulting motion of the respective STMs (108) is transferred mechanically to the elongate engagement and actuation part (3). The sensor (7) is arranged and adapted such as to detect the motion of the elongate engagement and actuation part (3). The elongate engagement and actuation part (3) comprises a plurality of screws (11) forming the engagement protrusions. Due to such engagement protrusions being formed by screws (11), an engagement of each of the protrusions into e.g. a respective recess (124) of a holder (120) connected to one of the STMs (108) may be precisely positioned for example by tightening the associated screw (11). Thereby, slack detection of the STMs may be improved.

IPC 8 full level  
**B66B 5/12** (2006.01)

CPC (source: EP)  
**B66B 5/12** (2013.01)

Citation (applicant)  

- WO 2007144456 A1 20071221 - KONE CORP [FI], et al
- EP 1953108 B1 20130403 - INVENTIO AG [CH]
- WO 2011131574 A1 20111027 - INVENTIO AG [CH], et al

Citation (search report)  

- [X] CN 202063618 U 20111207 - NANTONG 10TH GROUP ENGINEERING CO LTD
- [X] CN 203237876 U 20131016 - NINGBO HONGDA ELEVATOR CO LTD
- [X] DD 154288 A1 19820310 - PIETZSCH JUERGEN, et al

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 3121140 A1 20170125**

DOCDB simple family (application)  
**EP 15178151 A 20150723**