

Title (en)

MONITORING SYSTEM FOR OPERATING A CABLE DRAG CHAIN

Title (de)

ÜBERWACHUNGSSYSTEM FÜR DEN BETRIEB EINER ENERGIEFÜHRUNGSKETTE

Title (fr)

SYSTÈME DE SURVEILLANCE DU FONCTIONNEMENT D'UNE CHAÎNE PORTE-CÂBLES

Publication

EP 3782250 A1 20210224 (DE)

Application

EP 19718595 A 20190405

Priority

- DE 202018102217 U 20180420
- EP 2019058662 W 20190405

Abstract (en)

[origin: CA3097052A1] The invention relates to a monitoring system (1) for a cable drag chain (10) which: guides at least one cable (12) between two connection points (13a, 13b) which can be moved relative to one another; and has chain portions as guide regions of the at least one cable (12), said chain portions being positionally adjustable relative to one another when the connection points (13a, 13b) are moved relative to one another. The monitoring system (1) also comprises: at least one tension-relieving device (20) having a cable holding means (21) coupled to the cable (12); a support part (30) at at least one of the connection points (13a, 13b) which immovably fixes the tension-relieving device (20) and by means of which the end of the at least one cable (12) is fixed in a tension-relieving manner; and at least one measuring device (50) for monitoring the operation of the cable drag chain (10). The measuring device (50) is positioned and designed for measuring forces which are exerted on the fixed cable (12) during operation of the cable drag chain (10) and/or which are transmitted from the at least one cable (12) in the direction of the carrier part (30).

IPC 8 full level

H02G 11/00 (2006.01)

CPC (source: EP KR US)

F16G 13/16 (2013.01 - KR US); **F16G 13/18** (2013.01 - KR US); **G01L 5/103** (2013.01 - US); **G01M 13/023** (2013.01 - KR US); **G01N 3/08** (2013.01 - US); **H02G 3/32** (2013.01 - EP); **H02G 11/00** (2013.01 - EP); **H02G 11/006** (2013.01 - KR US)

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)

DE 202018102217 U1 20190723; AU 2019254266 A1 20201126; BR 112020021019 A2 20210119; CA 3097052 A1 20191024; CN 112703647 A 20210423; CN 112703647 B 20220617; EP 3782250 A1 20210224; JP 2021522764 A 20210830; JP 7386806 B2 20231127; KR 20210005088 A 20210113; SG 11202010392U A 20201127; TW 201944044 A 20191116; TW I826437 B 20231221; US 12007365 B2 20240611; US 2021164872 A1 20210603; WO 2019201626 A1 20191024

DOCDB simple family (application)

DE 202018102217 U 20180420; AU 2019254266 A 20190405; BR 112020021019 A 20190405; CA 3097052 A 20190405; CN 201980039464 A 20190405; EP 19718595 A 20190405; EP 2019058662 W 20190405; JP 2020557174 A 20190405; KR 20207033136 A 20190405; SG 11202010392U A 20190405; TW 108112836 A 20190412; US 201917048859 A 20190405