

Title (en)
Rope comprising a sensor

Title (de)
Seil mit einem Sensormodul

Title (fr)
Corde comportant un capteur

Publication
EP 2434050 B1 20150909 (DE)

Application
EP 11007787 A 20110923

Priority
DE 202010013519 U 20100923

Abstract (en)
[origin: EP2434050A1] The rope (2) has a sensor module (8) for detecting elongation or disorder loads, where the sensor module exhibits an electrically conductive sensor thread. The sensor module extends between two ends of the rope. The sensor module has a contact element at a front sided end face of the rope, where the contact element is accessible from outside. The module is connected with a measuring electronics at one end. The sensor thread is a conductive, mono or multi-filament made of polyamide, polyethylene or other polymer materials, where the filaments is coated with metal, silver or thermo plastic.

IPC 8 full level
D07B 1/14 (2006.01)

CPC (source: EP US)
D07B 1/145 (2013.01 - EP US); **D07B 1/04** (2013.01 - EP); **D07B 2201/102** (2013.01 - EP); **D07B 2201/104** (2013.01 - EP);
D07B 2201/1096 (2013.01 - EP); **D07B 2201/2056** (2013.01 - EP); **D07B 2201/209** (2013.01 - EP)

C-Set (source: EP)
D07B 2201/2056 + **D07B 2801/24**

Cited by
DE102013103118A1; EP4335953A1; CN112805435A; US11828022B2; WO2017068054A1; DE202013101326U1; EP4339340A1; EP3365492B1

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

DOCDB simple family (publication)
DE 202010013519 U1 20101125; EP 2434050 A1 20120328; EP 2434050 B1 20150909

DOCDB simple family (application)
DE 202010013519 U 20100923; EP 11007787 A 20110923