

Title (en)

Method and device for monitoring a drive of a lifting winch

Title (de)

Verfahren und Vorrichtung zur Überwachung des Betriebs von Hubwinden

Title (fr)

Méthode et dispositif pour contrôler l'entraînement d'un treuil d' un appareil de levage

Publication

EP 1103511 A3 20010718 (DE)

Application

EP 00124423 A 20001108

Priority

DE 19956265 A 19991123

Abstract (en)

[origin: EP1103511A2] The winch operation monitoring method determines the cable force, the load variations, the dynamic response and/or the residual working life of the winch (1), with detection of the torque of the winch drive (2) and the position of a lever arm of the winch cable (4), for calculating the cable force. The collective loading is determined from the time characteristic of the cable loading, for calculation of the residual working life. An Independent claim for a monitoring device for the operation of a lifting winch is also included.

IPC 1-7

B66C 13/16

IPC 8 full level

B66C 13/16 (2006.01); **B66D 1/54** (2006.01)

CPC (source: EP)

B66D 1/54 (2013.01)

Citation (search report)

- [X] EP 0779239 A1 19970618 - LIEBHERR WERK EHINGEN [DE]
- [X] EP 0803465 A2 19971029 - MANNESMANN AG [DE]
- [X] EP 0737851 A2 19961016 - BRUGER & FISCHER KRANANLAGEN U [DE]
- [DX] EP 0749934 A2 19961227 - BRANDMAIER MESSEN STEUERN SOFT [DE], et al

Cited by

CN102381655A; NL2009783C2; EP2554750A3; CN102020201A; EP2298688A3; DE102012010266A1; DE102012010266B4; EP4201867A1; IT202100032639A1; US7671547B2; US8200401B2; WO2012146380A3; US8793011B2; US8931350B2; US7683564B2; US7489098B2; WO2008045897A1; WO2021083542A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

EP 1103511 A2 20010530; EP 1103511 A3 20010718; EP 1103511 B1 20050406; DE 19956265 A1 20010607; DE 19956265 B4 20050630; DE 50009977 D1 20050512

DOCDB simple family (application)

EP 00124423 A 20001108; DE 19956265 A 19991123; DE 50009977 T 20001108