

Title (en)
LOAD-CARRYING MEANS FOR CABLE-OPERATED ELEVATORS WITH AN INTEGRATED LOAD MEASUREMENT DEVICE

Title (de)
LASTAUFNAHMEMITTEL FÜR SEIL-AUFZÜGE MIT INTEGRIERTER LASTMESSEINRICHTUNG

Title (fr)
MOYEN DE SUSPENSION DE CHARGE DESTINE A DES MONTE-CHARGES A CABLES DOTES D'UN DISPOSITIF DE MESURE DE CHARGE INTEGRE

Publication
EP 1278694 A1 20030129 (DE)

Application
EP 01921103 A 20010426

Priority

- EP 01921103 A 20010426
- CH 0100625 W 20010426
- EP 00810371 A 20000501

Abstract (en)
[origin: WO0183350A1] A load-carrying means (1) for cable-operated elevators comprising an under-loop cable arrangement is equipped with a load measurement device. At least one of the pulleys mounted underneath the load-carrying means (1) is fixed to said load-carrying means by a support structure containing an elastic element (7.1, 16, 22) which is deformed by the load-dependant cable forces exerted on the pulley(s) (9). A single sensor (15, 16) determines the extent of this deformation and produces a corresponding signal representing the weight of the load-carrying means (1) as the input for the elevator control system.

IPC 1-7
B66B 1/34

IPC 8 full level
B66B 1/34 (2006.01); **G01G 19/14** (2006.01); **B66B 1/44** (2006.01); **B66B 5/14** (2006.01); **B66B 7/06** (2006.01)

CPC (source: EP KR US)
B66B 1/34 (2013.01 - KR); **B66B 1/3484** (2013.01 - EP US)

Cited by
WO2022144322A1; WO2023117773A1; WO2021084012A1; US11772933B2

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)
WO 0183350 A1 20011108; AU 4821701 A 20011112; AU 784531 B2 20060427; BR 0110436 A 20030401; BR 0110436 B1 20090811; CA 2406896 A1 20011108; CA 2406896 C 20100126; CN 1218864 C 20050914; CN 1427798 A 20030702; CZ 20023840 A3 20040616; CZ 298166 B6 20070711; EP 1278694 A1 20030129; EP 1278694 B1 20121226; ES 2401773 T3 20130424; HK 1055590 A1 20040116; HK 1055590 B 20130614; HU 226605 B1 20090428; HU P0300349 A2 20030628; JP 2004520243 A 20040708; JP 5044079 B2 20121010; KR 20030003269 A 20030109; MX PA02010660 A 20030310; NO 20025257 D0 20021101; NO 20025257 L 20021101; NO 322985 B1 20061218; PL 205025 B1 20100331; PL 358217 A1 20040809; RU 2271327 C2 20060310; SK 14762002 A3 20030304; SK 286344 B6 20080707; US 2003111301 A1 20030619; US 6715587 B2 20040406; ZA 200208701 B 20031028

DOCDB simple family (application)
CH 0100265 W 20010426; AU 4821701 A 20010426; BR 0110436 A 20010426; CA 2406896 A 20010426; CN 01808911 A 20010426; CZ 20023840 A 20010426; EP 01921103 A 20010426; ES 01921103 T 20010426; HK 03104981 A 20030730; HU P0300349 A 20010426; JP 2001580789 A 20010426; KR 20027014675 A 20021101; MX PA02010660 A 20010426; NO 20025257 A 20021101; PL 35821701 A 20010426; RU 2002132265 A 20010426; SK 14762002 A 20010426; US 28378202 A 20021030; ZA 200208701 A 20021028