

Title (en)

Control arrangement with detection of the weight of the load

Title (de)

Steuerungsanordnung mit Erkennung des Gewichts der Last

Title (fr)

Système de commande avec détection du poids de la charge.

Publication

EP 0841298 A3 20021127 (DE)

Application

EP 97118120 A 19971018

Priority

DE 19645812 A 19961107

Abstract (en)

[origin: DE19645812C1] The hoist with electric motor driven lifting gear has a load sensing detector and electronic control system to influence the raising of the load according to comparison of the load weight with predetermined maximum and minimum values. The load is attached to a hook (5) and is lifted by a cable (4) wound on a drum (3) rotated in either direction by an electric pole-change motor (8) through a brake (25). The load sensor (33) provides a signal to a microprocessor unit (16) which controls both the motor and brake. A hand-held control switch unit (13) also provides input to the microprocessor to raise or lower the load at slow and fast speeds. The microprocessor is programmed with data according to the load and shuts down the motor when preset conditions are not met.

IPC 1-7

B66D 1/58; **B66C 13/26**

IPC 8 full level

B66D 1/46 (2006.01); **B66D 1/58** (2006.01)

CPC (source: EP)

B66D 1/46 (2013.01); **B66D 1/58** (2013.01)

Citation (search report)

- [DA] DE 2930439 A1 19810205 - ISETRON IND SICHERHEITS ELEKTR
- [DA] DE 2058712 A1 19720615 - DEMAG AG
- [A] DE 3020480 A1 19801211 - EPITOEGEPEGYARTO VALLALAT

Cited by

CN104828730A; CN102408064A; CN102730570A; CN114375281A; EP1602617A1; DE10124899A1; DE10124899B4; EP1190980A3; CN106586833A; US7234684B2

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