

Title (en)

Lifting apparatus with load measuring device and method to determine the load on a lifting apparatus

Title (de)

Hebezeug mit Hublastmesseinrichtung und Verfahren zur Bestimmung der Hublast von Hebezeugen

Title (fr)

Appareil de levage et procédé de mesure de la charge d'un tel appareil

Publication

EP 1602617 B1 20080910 (DE)

Application

EP 05011161 A 20050524

Priority

DE 102004027106 A 20040603

Abstract (en)

[origin: EP1602617A1] Hoist (1), especially a cable or chain hoist, has at least a lifting gear (4) with at least a shaft (17) and a lifted load measuring arrangement. The load measuring arrangement has at least a sensor (9) for measuring the shaft deformation. The measured deformation is used as an input value for determining the lifted load. The invention also relates to a corresponding method for determining the load lifted by a hoist.

IPC 8 full level

B66D 1/50 (2006.01); **B66C 13/16** (2006.01); **G01L 3/10** (2006.01)

CPC (source: EP US)

B66C 13/16 (2013.01 - EP US); **B66D 1/50** (2013.01 - EP US)

Cited by

EP2298687A3; EP1897840A1; EP2520534A1; US8949058B2

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EP 1602617 A1 20051207; **EP 1602617 B1 20080910**; AT E407908 T1 20080915; CN 100526195 C 20090812; CN 1704327 A 20051207; DE 102004027106 A1 20051229; DE 502005005307 D1 20081023; ES 2313150 T3 20090301; US 2005279976 A1 20051222; US 7234684 B2 20070626

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