

Title (en)

Manual operating device for hoisting gears

Title (de)

Bedienungsgerät für die Handbetätigung von Hebezeugen

Title (fr)

Dispositif de commande manuelle pour appareils de levage

Publication

**EP 1496529 B1 20080220 (DE)**

Application

**EP 04015168 A 20040629**

Priority

DE 10331130 A 20030709

Abstract (en)

[origin: EP1496529A1] The device has at least one spring-loaded switch element (2) per direction of movement of the lifting tool. Each switch element has a press-operated mechanism (5), first electrical micro-button (4) and at least one further control and/or switch element (6). The press-operated mechanism consists of an outer rod (7) spring-loaded relative to the micro-button and the control and/or switch element and an inner rod (9) spring-loaded within the outer rod. The first micro-button is operated by the inner rod and the control and/or switch element is operated by the outer rod.

IPC 8 full level

**H01H 13/64** (2006.01)

CPC (source: EP US)

**H01H 13/64** (2013.01 - EP US); **H01H 2217/02** (2013.01 - EP US); **H01H 2225/018** (2013.01 - EP US); **H01H 2235/03** (2013.01 - EP US)

Citation (examination)

DE 10232399 A1 20030703 - IGLESIAS ANGEL SA [ES]

Cited by

FR2904725A1; EP1884970A3; WO2008141350A3; US8278574B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 1496529 A1 20050112; EP 1496529 B1 20080220**; AT E387006 T1 20080315; CN 100346431 C 20071031; CN 1577663 A 20050209; DE 10331130 A1 20050203; DE 502004006236 D1 20080403; ES 2301901 T3 20080701; HK 1073014 A1 20050916; US 2005034966 A1 20050217; US 6972385 B2 20051206

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