

Title (en)

Lifting device with means for holding and releasing an object

Title (de)

Hebevorrichtung mit Mitteln zum Halten und Freigeben von Objekten

Title (fr)

Dispositif de levage avec de moyens pour maintenir et relâcher un objet

Publication

EP 2308791 A1 20110413 (EN)

Application

EP 10178020 A 20100921

Priority

SE 0950751 A 20091012

Abstract (en)

Lifting device (1) with means (40) for holding and releasing an object (3). The lifting device comprises a body (5) with a space (7) adapted to receive a lifting element (9), and a control unit (11) adapted to control the holding and releasing of the object from the lifting device. The lifting device comprises a displaceable part (20) arranged in the space and indicating means (22). The displaceable part is adapted, at an interaction with a certain force from the lifting element, to be displaced from a first position to a second position and at ceasing of mentioned force be displaced from the second position to the first position. The indicating means is adapted to detect the position of the displaceable part and to create at least one signal that indicates if the lifting device is in a lifting state or a non-lifting state based on the detected position. The control unit is adapted to control the holding and releasing of the object from the lifting device in dependency of mentioned at least one signal.

IPC 8 full level

B66C 13/08 (2006.01); **B66C 1/08** (2006.01); **B66C 13/16** (2006.01)

CPC (source: EP SE)

B66C 1/06 (2013.01 - SE); **B66C 1/08** (2013.01 - EP); **B66C 1/36** (2013.01 - SE); **B66C 1/40** (2013.01 - SE); **B66C 13/085** (2013.01 - EP); **B66C 13/16** (2013.01 - EP)

Citation (search report)

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- [A] JP S57145440 U 19820913
- [A] JP S5017959 U 19750227
- [A] US 2007200032 A1 20070830 - EADIE WILLIAM J [US], et al

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EP2441725A1; CN104136900A; US11407619B2; WO2019052675A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

BA ME RS

DOCDB simple family (publication)

EP 2308791 A1 20110413; **EP 2308791 B1 20121226**; CN 201842579 U 20110525; SE 0950751 A1 20110413; SE 1051067 A1 20110413; SE 534451 C2 20110830; SE 534721 C2 20111129

DOCDB simple family (application)

EP 10178020 A 20100921; CN 201020556561 U 20101009; SE 0950751 A 20091012; SE 1051067 A 20101012