

Title (en)
LIFTING DEVICE FOR LIFTING AND LOWERING LOADS

Title (de)
HUBVORRICHTUNG ZUM HEBEN UND SENKEN VON LASTEN

Title (fr)
DISPOSITIF DE LEVAGE POUR LEVER ET ABAISSER DES CHARGES

Publication
EP 4182257 B1 20240710 (DE)

Application
EP 21783164 A 20210922

Priority
EP 2021076040 W 20210922

Abstract (en)
[origin: WO2023046276A1] The invention relates to a lifting device (1) comprising two frame assemblies (2, 3) which lie one over the other with respect to a vertical direction (Z) and the lower frame assembly (2) of which is suspended on the upper frame assembly (3) via lifting pulling means (H1-H4) that can be wound by means of a lifting/lowering device (4). In order to stabilize the lower frame assembly (2), which can be deflected, in a first lateral direction (R1), each of the lifting pulling means (H1-H4) is diverted at least once over the extension thereof such that a diagonal section (H1d-H4d) of each lifting pulling means (H1-H4), said diagonal section running in an inclined manner relative to the vertical direction (Z), crosses a directly adjacent diagonal section (H1d-H4d) of another lifting pulling means (H1-H4), said other diagonal section running in an oppositely inclined manner. According to the invention, diagonal pulling means (S1-S4), which can be wound by a tensioning device, extend between the two frame assemblies (2, 3), two respective directly adjacent diagonal pulling means (S1-S4) thereof crossing each other such that the second frame assembly (3) is also stabilized in a second lateral direction (R2) with respect to the upper frame assembly (3).

IPC 8 full level
B66C 13/06 (2006.01)

CPC (source: EP KR)
B66C 13/06 (2013.01 - EP KR)

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 RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2023046276 A1 20230330; CA 3229723 A1 20230330; CN 118139809 A 20240604; EP 4182257 A1 20230524; EP 4182257 B1 20240710; KR 20240063875 A 20240510

DOCDB simple family (application)
EP 2021076040 W 20210922; CA 3229723 A 20210922; CN 202180102585 A 20210922; EP 21783164 A 20210922; KR 20247006634 A 20210922