

Title (en)
APPARATUS FOR REMOVING LARGE-WEIGHT OBJECT LIFTING MEMBERS.

Title (de)
VORRICHTUNG ZUM AUFHEBEN VON SCHWEREN LASTEN.

Title (fr)
APPAREIL PERMETTANT DE DEGAGER DES ELEMENTS DE LEVAGE D'OBJETS LOURDS.

Publication
EP 0650919 A4 19970423 (EN)

Application
EP 94913816 A 19940426

Priority
• JP 9400689 W 19940426
• JP 10782293 A 19930510

Abstract (en)
[origin: WO9426647A1] Upper wires (28) are provided between a base (12) and the hook (31a) of a crane (31), and lower wires (32) the base end portions of which are secured to the base are engaged with lifting member locking portions (11a) of a large-weight object (11), rings (32a) at the upper ends of the lower wires (32) being fitted around a mast (17) provided upright on the base. A slider (18) fitted slidably around the mast is pushed up by a first resilient member so that the upper end of the slider is flush with at least that of the mast in a no-load condition a slider lowering means (33) overcoming the resilient force of the first resilient member to lower the slider. A locking means temporarily fixes the slider lowering means with the slider in a lowered state, and an unlocking means disengages the locking means. The lower lifting members can be removed automatically from the large-weight object lowered to a predetermined place. A large-weight object of any shape can be lifted and lowered to a predetermined place without damaging the tension members, and an operation for hanging tension members on a hook of a crane becomes unnecessary.

IPC 1-7
B66C 1/12; **B66C 1/34**

IPC 8 full level
B66C 1/10 (2006.01); **B66C 1/12** (2006.01); **B66C 1/34** (2006.01); **B66C 1/38** (2006.01)

CPC (source: EP)
B66C 1/10 (2013.01); **B66C 1/34** (2013.01); **B66C 1/38** (2013.01)

Citation (search report)
• [A] US 3666216 A 19720530 - NAGY CHARLES E, et al
• [A] CH 341289 A 19590930 - BACHMANN MARCEL [CH]
• See references of WO 9426647A1

Cited by
KR101328038B1; WO2012077115A3; US9440741B2; US9751628B2

Designated contracting state (EPC)
DE DK ES FR GB GR IT NL SE

DOCDB simple family (publication)
WO 9426647 A1 19941124; AU 6582094 A 19941212; BR 9405361 A 19990831; CA 2139939 A1 19941124; CA 2139939 C 19990105; CN 1048469 C 20000119; CN 1110874 A 19951025; DE 69421239 D1 19991125; DE 69421239 T2 20000621; EP 0650919 A1 19950503; EP 0650919 A4 19970423; EP 0650919 B1 19991020; JP H0725578 A 19950127; RU 2110468 C1 19980510; RU 95106038 A 19961110

DOCDB simple family (application)
JP 9400689 W 19940426; AU 6582094 A 19940426; BR 9405361 A 19940426; CA 2139939 A 19940426; CN 94190367 A 19940426; DE 69421239 T 19940426; EP 94913816 A 19940426; JP 934094 A 19940131; RU 95106038 A 19940426