

Title (en)

Guiding apparatus for one or more flexible tubes at the end of an articulated arm of a lifting apparatus

Title (de)

Führungsvorrichtung für ein oder mehrere flexible Leitungen an der Spitze eines Gelenkarms einer Hebevorrichtung

Title (fr)

Dispositif de guidage d'un ou plusieurs flexibles à l'extrémité d'un mât articulé d'un appareil de levage

Publication

EP 0811725 B1 20020508 (FR)

Application

EP 97401223 A 19970603

Priority

FR 9606872 A 19960604

Abstract (en)

[origin: EP0811725A1] The guide is used for one or more flexible elements (2) such as cables on the upper end of an articulated jib (6), e.g. of a trench cutter. The guide comprises a support (5) on the end of the jib to ensure the proper curvature of the flexible element and avoid damage to it. The support extends for a sufficient length to hold the flexible element up when the jib is in its highest position and is attached to the upper end of the jib by a first pivot (7) and to a rigid connector (11) by a second pivot (13). The rigid connector is articulated about an additional fixed pivot (12). The four pivots (7,10,12,13) of the support and jib are located at the four corners of an articulated parallelogram, so that the support holds its position as the jib moves. The support has a series of rollers with their axes parallel to one another and perpendicular to the axis of the flexible element(s). The rollers are located, when viewed from one side, along an arc of a circle.

IPC 1-7

E02F 3/22

IPC 8 full level

E02F 5/02 (2006.01); **B66C 23/66** (2006.01); **E02F 3/20** (2006.01); **E02F 3/22** (2006.01)

CPC (source: EP)

E02F 3/205 (2013.01); **E02F 3/22** (2013.01)

Cited by

CN103052589A; EP2077355A1

Designated contracting state (EPC)

DE FR IT NL

DOCDB simple family (publication)

EP 0811725 A1 19971210; **EP 0811725 B1 20020508**; DE 69712406 D1 20020613; DE 69712406 T2 20020829; FR 2749291 A1 19971205; FR 2749291 B1 19980911; JP 3943191 B2 20070711; JP H10120370 A 19980512

DOCDB simple family (application)

EP 97401223 A 19970603; DE 69712406 T 19970603; FR 9606872 A 19960604; JP 14630297 A 19970604