

Title (en)

Device for stopping the oscillation of the arm of a handling equipment of the swingable lever type

Title (de)

Vorrichtung zum Stoppen der Oszillation des Arms eines Handhabungsgeräts mit schwenkbarem Hebel

Title (fr)

Dispositif d'arrêt d'oscillation du bras d'un équipement de manipulation de type à levier pivotant

Publication

EP 2177319 A1 20100421 (EN)

Application

EP 09012622 A 20091006

Priority

IT TO20080736 A 20081008

Abstract (en)

A handling equipment of the swingable lever type comprises an arm rotationally connected to a shaft (18) that extends from a body (10) of the equipment, and a toggle mechanism (33) interposed between the shaft (18) and one end of an axially slidable stem (34). The sliding of the stem (34) is controlled by pressurized fluid control means so as to cause an angular oscillation of the arm between two predetermined end-of-stroke angular positions. The equipment further comprises a device for stopping the oscillation of the arm, including a first engagement member (42, 40) fixed to the body (10) and a second engagement member (40) movable together with the stem (the 34), which members (40, 42) have respective reciprocally facing active surfaces adapted to reach a frontal engagement condition as a result of the transverse movement of one of them with respect to the stem (34), when a pressure drop of the fluid fed to said control means takes place, with the aim of stopping the movement of the stem (34).

IPC 8 full level

B25B 5/12 (2006.01); **B25B 5/16** (2006.01)

CPC (source: EP)

B25B 5/122 (2013.01); **B25B 5/16** (2013.01)

Citation (applicant)

- EP 1300625 A2 20030409 - VEP AUTOMATION SRL [IT]
- DE 29713944 U1 19971002 - TUENKERS MASCHINENBAU GMBH [DE]

Citation (search report)

- [X] DE 29713944 U1 19971002 - TUENKERS MASCHINENBAU GMBH [DE]
- [A] DE 29820284 U1 19990225 - STA CO METTALLERZEUGNISSE GMBH [DE]
- [A] DE 10211759 A1 20031009 - STA CO METTALLERZEUGNISSE GMBH [DE]
- [A] US 2001003388 A1 20010614 - TAKAHASHI HIDEHITO [JP], et al
- [A] DE 20105949 U1 20010816 - TUENKERS MASCHINENBAU GMBH [DE]
- [A] DE 3403961 A1 19850814 - TUENKERS JOSEF GERHARD

Cited by

EP2514563A1; US8746664B2; US8459626B2; WO2011149759A3

Designated contracting state (EPC)

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)

AL BA RS

DOCDB simple family (publication)

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