

Title (en)

Braking device for toggle-lever drive apparatuses

Title (de)

Bremsvorrichtung für Kniehebelantriebsgeräte

Title (fr)

Dispositif de freinage pour appareils de commande à genouillère

Publication

EP 1952946 A3 20090805 (EN)

Application

EP 08001501 A 20080128

Priority

IT MI20070176 A 20070202

Abstract (en)

[origin: EP1952946A2] The braking device (15, 16) for braking a rocking work arm (12) in toggle-lever drive apparatuses (10), comprises a hydraulic decelerator (17', 17'') operating in correspondence with an operative position of the work arm (12), which is provided with a control rod (18) movable according to a longitudinal axis (A); the braking device (15, 16) further comprises an actuating arm (19', 19'') connected to the rotatable drive shaft (13) of the work arm (12) and designed to act on the control rod (18) of the hydraulic decelerator (17', 17''). The control rod (18) of the decelerator (17', 17'') and the actuating arm (19', 19'') have arched contact surfaces (20, 21) shaped and disposed in such a way that the actuating arm (19', 19'') exerts a thrust force on the control rod (18) which remains substantially coaxial to the longitudinal axis (A) of the decelerator (17', 17'').

IPC 8 full level

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

CPC (source: EP)

B25B 5/064 (2013.01); **B25B 5/12** (2013.01); **B25B 5/122** (2013.01); **B25B 5/16** (2013.01)

Citation (search report)

- [XA] US 1783599 A 19301202 - BLAKE DENNIS B D
- [DA] EP 1300625 A2 20030409 - VEP AUTOMATION SRL [IT]
- [A] US 2002980 A 19350528 - GLEZEN WILLIAM M
- [A] US 2145736 A 19390131 - ROSSMAN EDWIN F
- [A] DE 29519232 U1 19960404 - TUENKERS MASCHINENBAU GMBH [DE]
- [A] EP 0962285 A2 19991208 - TUENKERS MASCHINENBAU GMBH [DE]

Cited by

DE102012100186A1; CN103917334A; CN106794571A; IT202000003784A1; EP3488970A1; US9636803B2; WO2016008474A1; WO2013023650A1; WO2013104355A3; WO2021171189A1; US9422971B2

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

EP 1952946 A2 20080806; EP 1952946 A3 20090805; IT MI20070176 A1 20080803

DOCDB simple family (application)

EP 08001501 A 20080128; IT MI20070176 A 20070202