

Title (en)

CLAMPING APPARATUS AND ARRANGEMENT OF SUCH A CLAMPING APPARATUS WITH A COLLET

Title (de)

SPANNVORRICHTUNG UND ANORDNUNG EINER SOLCHEN SPANNVORRICHTUNG MIT EINER SPANNZANGE

Title (fr)

DISPOSITIF DE SERRAGE ET AGENCEMENT D'UN TEL DISPOSITIF DE SERRAGE AVEC UNE PINCE DE SERRAGE

Publication

EP 2176022 A1 20100421 (DE)

Application

EP 08785281 A 20080801

Priority

- EP 2008006340 W 20080801
- DE 102007038789 A 20070807

Abstract (en)

[origin: CA2694129A1] A clamping chuck (11) for holding a multipart collet (15) for clamping a workpiece has a housing (12) with a collet holder (13) having a guide device (17) and guide surfaces (18). The collet (15) can be moved on the clamping chuck (11) in the axial direction. The guide device (17) has balls (21) as rolling elements on the guide surfaces (18), and a multiplicity of said balls are arranged continuously on a rolling element holder (20). Together with said rolling element holder, these balls can be moved in the guide device (17) from an initial position into the clamping chuck (11). A restoring device (32) for the rolling element holder (20) is provided, and this has a direction of action out of the clamping chuck (11) in order to move the balls (21) back into the initial position if there is no collet (15) in the clamping chuck (11).

IPC 8 full level

B23B 31/20 (2006.01)

CPC (source: EP US)

B23B 31/201 (2013.01 - EP US); **B23B 2226/33** (2013.01 - EP US); **B23B 2231/2016** (2013.01 - EP US); **B23B 2231/32** (2013.01 - EP US); **B23B 2260/008** (2013.01 - EP US); **B23B 2260/022** (2013.01 - EP US); **B23B 2260/126** (2013.01 - EP US); **Y10T 279/17529** (2015.01 - EP US)

Citation (search report)

See references of WO 2009018965A1

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)

DE 102007038789 A1 20090212; CA 2694129 A1 20090212; EP 2176022 A1 20100421; US 2010201084 A1 20100812; WO 2009018965 A1 20090212

DOCDB simple family (application)

DE 102007038789 A 20070807; CA 2694129 A 20080801; EP 08785281 A 20080801; EP 2008006340 W 20080801; US 70124710 A 20100205