

Title (en)
CLAMPING TOOL

Title (de)
SPANNWERKZEUG

Title (fr)
OUTIL DE SERRAGE

Publication
EP 2991806 B1 20170322 (DE)

Application
EP 14724023 A 20140429

Priority
• DE 102013104413 A 20130430
• EP 2014058683 W 20140429

Abstract (en)
[origin: WO2014177529A1] The invention relates to a toggle clamp comprising a base (12), a clamping arm (20) which is hinged on the base such that it can pivot about a first pivot axis (18), a handle (40) which is hinged on the clamping arm such that it can pivot about a second pivot axis (38), a link element (57), which is hinged on the handle such that it can pivot about a third pivot axis (56), a first wedge element (60) having a first wedge surface (68), said element being guided linearly along a guide (58) and a second wedge element (74) having a second wedge surface (80) facing the first wedge surface, said second wedge element being adapted to the first wedge element and being guided linearly. In a first positional range of the handle, the first wedge surface and the second wedge surface are mutually spaced and in a second positional range of the handle, the second wedge surface is supported on the first wedge surface. The link element is connected to the first wedge element and is hinged on the first wedge element such that it can pivot about a fourth pivot axis (72).

IPC 8 full level
B25B 5/00 (2006.01); **B25B 5/06** (2006.01); **B25B 5/12** (2006.01); **B25B 7/12** (2006.01)

CPC (source: EP US)
B25B 5/006 (2013.01 - EP US); **B25B 5/06** (2013.01 - EP US); **B25B 5/12** (2013.01 - EP US); **B25B 7/123** (2013.01 - EP US)

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)
DE 102013104413 B3 20140717; DE 102013104413 C5 20160811; CN 105163909 A 20151216; CN 105163909 B 20170908; CN 105163910 A 20151216; EP 2991805 A1 20160309; EP 2991805 B1 20170215; EP 2991806 A1 20160309; EP 2991806 B1 20170322; PL 2991805 T3 20170929; TW 201509607 A 20150316; TW I523737 B 20160301; US 2016184978 A1 20160630; US 2016184979 A1 20160630; US 9889543 B2 20180213; WO 2014177529 A1 20141106; WO 2014177539 A1 20141106

DOCDB simple family (application)
DE 102013104413 A 20130430; CN 201480024774 A 20140429; CN 201480024786 A 20140429; EP 14719789 A 20140429; EP 14724023 A 20140429; EP 2014058651 W 20140429; EP 2014058683 W 20140429; PL 14719789 T 20140429; TW 103114652 A 20140423; US 201514875796 A 20151006; US 201514875807 A 20151006