

Title (en)

PIN CLAMP WITH MULTI-THICKNESS CLAMPING FEATURE

Title (de)

STIFTKLEMME MIT MEHRFACHDICKENKLEMMFUNKTION

Title (fr)

PINCE À BROCHES AVEC CARACTÉRISTIQUE DE SERRAGE MULTI-ÉPAISSEUR

Publication

EP 3081338 A1 20161019 (EN)

Application

EP 16162931 A 20160330

Priority

- US 201562149319 P 20150417
- US 201514858645 A 20150918

Abstract (en)

A pin clamp (2) for clamping a workpiece includes a housing (4) having a longitudinal axis and a locating pin (6) extending through the housing. The locating pin (6) is sized to be positioned within an opening of the workpiece. A finger (10) is positioned adjacent to the locating pin (6) and movable in a transverse direction relative to the longitudinal axis to retain the workpiece on the locating pin (6). An exterior driving linkage (150) is configured to move the locating pin (6) in opposite directions along the longitudinal axis. A locking arrangement is carried by the housing. A sequence cam (54) is connected with the exterior driving linkage (150) thereby allowing axial movement of the exterior driving linkage (150) to be converted into transverse movement of the sequence cam. The sequence cam (54) includes an engagement surface which engages the locking arrangement to lock the locating pin (6) and the finger (10) against the workpiece upon retraction of the exterior driving linkage.

IPC 8 full level

B25B 5/06 (2006.01); **B25B 5/08** (2006.01)

CPC (source: EP)

B25B 5/061 (2013.01); **B25B 5/087** (2013.01)

Citation (applicant)

- US 7182326 B2 20070227 - MCINTOSH BRUCE D [US], et al
- US 7516948 B2 20090414 - MCINTOSH BRUCE D [US], et al
- US 7448607 B2 20081111 - STEELE KENNETH A [US], et al
- US 7815176 B2 20101019 - MCINTOSH BRUCE D [US], et al
- US 7467788 B2 20081223 - MCINTOSH BRUCE D [US], et al

Citation (search report)

- [Y] US 2014103589 A1 20140417 - MCINTOSH BRUCE D [US]
- [Y] US 2006290042 A1 20061228 - COLBY DOUGLAS D [US], et al

Cited by

CN113732739A; CN109605079A

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3081338 A1 20161019; EP 3081338 B1 20180131; CA 2922317 A1 20161017; CA 2922317 C 20230606; MX 2016003322 A 20161017; MX 368757 B 20191015

DOCDB simple family (application)

EP 16162931 A 20160330; CA 2922317 A 20160301; MX 2016003322 A 20160314