

Title (en)
Device for locking workpieces

Title (de)
Vorrichtung zum Verriegeln von Werkstücken

Title (fr)
Dispositif de verrouillage de pièces

Publication
EP 2241402 A1 20101020 (EN)

Application
EP 10003975 A 20100415

Priority
IT TO20090295 A 20090416

Abstract (en)
device for locking workpieces comprises a body (12) to which a fluid operated actuator (14) including a slidable rod (20) is associated, as well as a pair of arms (26, 28) articulated about respective stationary pins of rotation (42, 44). The oscillation of the arms (26, 28) is controlled by a mechanism comprising a control member (56) that is axially movable together with the rod (20), which has two slots (58) inclined and symmetrical with respect to the axis of the rod (20). Each slot (58) is slidably engaged by a movable transverse pin (60) crossing also a through opening (68) of a respective arm (26, 28). The opposite ends of each movable transverse pin (60) are slidably engaged in shaped guide formations (64) of a pair of side members (34, 36) of the body (12).

IPC 8 full level
B25B 5/08 (2006.01); **B25J 15/02** (2006.01)

CPC (source: EP)
B25B 5/087 (2013.01)

Citation (search report)
• [A] US 4607873 A 19860826 - NUSBAUMER KAY T [US], et al
• [A] US 6290210 B1 20010918 - HORN EDWARD R [US], et al
• [A] JP H0686842 U 19941220
• [A] WO 9815392 A1 19980416 - PHD INC [US], et al

Cited by
CN105945985A; CN110666478A; US2016167202A1; US10016878B2; EP2921260A1; EP2921261A1; WO2015140288A1; EP2921261B1; EP2921261B2

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 ME RS

DOCDB simple family (publication)
EP 2241402 A1 20101020; EP 2241402 B1 20130605; ES 2424459 T3 20131002; IT 1394338 B1 20120606; IT TO20090295 A1 20101017; PL 2241402 T3 20131129

DOCDB simple family (application)
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