

Title (en)
Lever mechanism for adjustable pliers

Title (de)
Hebelmechanismus für anpassbare Zangen

Title (fr)
Mécanisme de levier pour pinces ajustables

Publication
EP 2596912 A1 20130529 (EN)

Application
EP 11385201 A 20111123

Priority
EP 11385201 A 20111123

Abstract (en)
The invention relates to a lever mechanism for adjustable pliers (1), of a kind which has a displaceable active arm (2) having a transverse recess with two flanks (2a) between which there is located a passive arm (3) which has a longitudinal slot (4) provided with at least one inclined tooth arrangement (4a), there being fixed to the displaceable active arm (2) a displaceable spindle (6) which slides along the longitudinal slot (4), characterised in that said displaceable spindle (6) has an engaging configuration of a shape corresponding to a non-circular engaged orifice (5a) of a rotatable catch (5) which has, on one side, a catching tooth arrangement (5b) facing the inclined tooth arrangement (4a) of the longitudinal slot (4), and the rotatable catch (5) has, on the opposite side, a resilient spring (8); the displaceable spindle (6) has, in its upper part, a radial lever (7) located in the proximity of the thumb of the user.

IPC 8 full level
B25B 7/10 (2006.01)

CPC (source: EP)
B25B 7/10 (2013.01)

Citation (search report)
• [I] EP 1052066 A2 20001115 - SUPER EGO TOOLS [ES]
• [A] GB 2453331 A 20090408 - WENDENG MAXPOWER TOOL GROUP CO LTD [CN]

Cited by
CN107995884A; FR3043003A1; WO2016207076A1; DE102021102330A1; WO2021160598A1

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 2596912 A1 20130529; EP 2596912 B1 20150225; DK 2596912 T3 20150601; ES 2536607 T3 20150526

DOCDB simple family (application)
EP 11385201 A 20111123; DK 11385201 T 20111123; ES 11385201 T 20111116