

Title (en)
SELF-ADJUSTING PLIERS

Title (de)
SELBSTEINSTELLENDEN ZANGE

Title (fr)
PINCE AUTOREGLABLE

Publication
EP 1534472 A4 20090930 (EN)

Application
EP 03731331 A 20030618

Priority
• US 0316221 W 20030618
• US 39000702 P 20020618

Abstract (en)
[origin: WO2004020153A1] A self-adjusting pliers (20) is operable to grasp a workpiece (22) between an upper jaw (24) and a lower jaw (26). The pliers includes an upper arm (28) having a first end and a second end, with the upper jaw at the first end. A jaw arm (34) has a first end and a second end. The second end of the jaw arm is pivotably connected to the upper arm at a main pivot (40) adjacent to the second end of the upper arm, so that the first end of the jaw arm is movable in a circular arc relative to the main pivot. The lower jaw is at the first end of the jaw arm in movable facing relation to the upper jaw so that the workpiece may be grasped between the upper jaw and the lower jaw. An engagement mechanism (86) releasably engages the jaw arm to the upper arm at an engagement position responsive to a movement of the jaw arm relative to the upper arm and responsive to a size of the workpiece grasped between the upper jaw and the lower jaw, to thereby prevent rotation of the jaw arm relative to the upper arm.

IPC 1-7
B25B 7/04; **B25B 7/12**; **B25B 7/14**

IPC 8 full level
B25B 7/10 (2006.01); **B25B 7/12** (2006.01)

CPC (source: EP)
B25B 7/10 (2013.01); **B25B 7/123** (2013.01)

Citation (search report)
• [X] US 2112873 A 19380405 - JERARD WRIGHT
• [X] FR 2713124 A1 19950609 - CHAREIRE JEAN LOUIS [FR]
• [X] DE 19748034 A1 19990512 - CONNECTOOL GMBH & CO [DE]
• [X] FR 1038135 A 19530925
• [A] US 2521276 A 19500905 - LAMPE FRIEDRICH W
• See references of WO 2004020153A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2004020153 A1 20040311; AU 2003241584 A1 20040319; CA 2489819 A1 20040311; CA 2489819 C 20090721; CN 100551628 C 20091021; CN 1671513 A 20050921; EP 1534472 A1 20050601; EP 1534472 A4 20090930

DOCDB simple family (application)
US 0316221 W 20030618; AU 2003241584 A 20030618; CA 2489819 A 20030618; CN 03817519 A 20030618; EP 03731331 A 20030618