

Title (en)  
PLIERS

Title (de)  
ZANGE

Title (fr)  
PINCES

Publication  
**EP 1916063 B1 20140212 (FR)**

Application  
**EP 05822915 A 20051124**

Priority  
• ES 2005000639 W 20051124  
• ES 200501312 A 20050601

Abstract (en)  
[origin: WO2006128924A2] The invention relates to a pliers comprising two arms which are connected to one another by means of a fulcrum pin. According to the invention, one of the arms can be step-adjusted in a wide window (V) that is provided in the other arm in order to vary the size of the jaws. One of the arms is equipped with two coaxial holes in which the fulcrum pin is mounted. In addition, one of the arms is provided with a projection comprising a lateral recess which extends into one of the aforementioned holes, said recess housing a push element which is equipped with an inner recess containing a spring which acts between the push element and the arm. Moreover, the fulcrum pin is screwed to the push element in the area comprising the lateral recess. In addition, a toothed ratchet and a wear-resistant bushing are disposed coaxially between the pin and the push element such as to form a mechanically continuous assembly, said bushing being housed in the walls of the other hole in the operating position. The invention is suitable for hand tools.

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

CPC (source: EP ES)  
**B25B 7/10** (2013.01 - EP ES)

Cited by  
EP2008772A4; EP2149427A1

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

DOCDB simple family (publication)  
**EP 1916063 A2 20080430; EP 1916063 A4 20100127; EP 1916063 B1 20140212**; ES 2277520 A1 20070701; ES 2277520 B1 20080516; ES 2317725 A1 20090416; ES 2317725 B1 20100210; ES 2462877 T3 20140526; PT 1916063 E 20140519; WO 2006128924 A2 20061207; WO 2006128924 A3 20070920

DOCDB simple family (application)  
**EP 05822915 A 20051124**; ES 05822915 T 20051124; ES 2005000639 W 20051124; ES 200501312 A 20050601; ES 200600612 A 20060310; PT 05822915 T 20051124