

Title (en)
Locking or expanding pliers

Title (de)
Klemm- oder Spreizzange

Title (fr)
Pince étau ou pince extensible

Publication
EP 1323499 B1 20091104 (DE)

Application
EP 03005746 A 20000126

Priority
• DE 19905594 A 19990211
• DE 19933033 A 19990715
• EP 02004045 A 20000126
• EP 00903630 A 20000126

Abstract (en)
[origin: US6708587B1] Clamping or expanding pliers having a first plier arm pivotally connected to a second plier arm, and a toothed structure attached to the first plier arm. A catch member is movably connected to the second plier arm. A single bias spring biases the plier arm apart and biases the catch member to a resting position engaged with the toothed structure. Either with or without the single bias spring the catch member may include an intermediate release position allowing a separating movement of the first and second plier arms without disengaging the catch member from the toothed structure. The first and second plier arms may include a resiliently deformable plastic, with the catch member arranged so that the force required to move it to its release position is lower than the clamping force.

IPC 8 full level
B25B 7/14 (2006.01); **B25B 5/06** (2006.01); **B25B 7/00** (2006.01)

CPC (source: EP US)
B25B 5/06 (2013.01 - EP US); **B25B 7/14** (2013.01 - EP US)

Cited by
DE202010003435U1

Designated contracting state (EPC)
AT DE ES FR GB IT

DOCDB simple family (publication)
US 6708587 B1 20040323; AT E222839 T1 20020915; AU 2544400 A 20000829; CA 2327300 A1 20000817; CA 2327300 C 20010911; CA 2342760 A1 20000817; CA 2342760 C 20060627; CN 1327406 A 20011219; DE 20021888 U1 20010308; DE 50000415 D1 20021002; DE 50010058 D1 20050519; EP 1150804 A1 20011107; EP 1150804 B1 20020828; EP 1150804 B8 20030326; EP 1236543 A2 20020904; EP 1236543 A3 20021211; EP 1236543 B1 20050413; EP 1323499 A2 20030702; EP 1323499 A3 20031210; EP 1323499 B1 20091104; ES 2179017 T3 20030116; WO 0047371 A1 20000817; WO 0047371 A8 20020418

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US 74306301 A 20010313; AT 00903630 T 20000126; AU 2544400 A 20000126; CA 2327300 A 20000126; CA 2342760 A 20000126; CN 00801446 A 20000126; DE 20021888 U 20000126; DE 50000415 T 20000126; DE 50010058 T 20000126; EP 0000565 W 20000126; EP 00903630 A 20000126; EP 02004045 A 20000126; EP 03005746 A 20000126; ES 00903630 T 20000126