

Title (en)
VISE-GRIP OR EXPANDING PLIERS

Title (de)
KLEMM- ODER SPREIZZANGE

Title (fr)
PINCE ETAU OU PINCE EXTENSIBLE

Publication
EP 1150804 B1 20020828 (DE)

Application
EP 00903630 A 20000126

Priority
• DE 19905594 A 19990211
• DE 19933033 A 19990715
• EP 0000565 W 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 1-7
B25B 7/14

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

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

Cited by
WO2009003482A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

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

DOCDB simple family (application)
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