

Title (en)
Locking or expanding pliers

Title (de)
Klemm- oder Spreizzange

Title (fr)
Pince étau ou pince extensible

Publication
EP 1323499 A3 20031210 (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: EP1323499A2] The pliers have a toothed arc batten (11) fitted to one of the arms (4) of the pliers, in the teeth of which a locking pawl (13) fitted to the handle part of the other arm (6) engages. This pawl and its locking sector (17) are made in two parts. The spacing between the tooth engagement point of the pawl and the teeth and bearing journals can be reduced, causing the two clamping sectors (7, 9) to spring apart.

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)

Citation (search report)
• [DA] US 4821610 A 19890418 - REDMON JR JOHN W [US], et al
• [DA] US 3013456 A 19611219 - ERNFERD ERICSON ALF
• [DA] US 1978543 A 19341030 - THEODORE MADEIRA WILLIAM
• [DA] FR 1347377 A 19631227 - METALLURG DU CRET DE ROC ATEL
• [DA] WO 9814308 A1 19980409 - FAST INDUSTRIPRODUKTER HANDELS [SE], et al

Cited by
DE202010003435U1

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