

Publication

**EP 0774324 A3 19970611**

Application

**EP 97100103 A 19920803**

Priority

- DE 9109830 U 19910808
- DE 9113870 U 19911107
- EP 92113241 A 19920803

Abstract (en)

[origin: EP0528252A1] The invention relates to pliers (1) with two plier arms (2, 3) which are connected to one another by means of a joint bolt (4), the plier jaw (M) being formed above the intersection area and grip sections (7, 8) being formed below the intersection area on the plier arms (2, 3), in which arrangement one plier arm (2) gradually adjustable in the intersection area relative to the other plier arm (3) for changing the size of the plier jaw (M) passes through a clearance space (F) of the other plier arm (3), and furthermore the joint bolt (4) is suitably guided in a bore (14) of the other plier arm (3) and can be displaced transversely to the longitudinal plane of the pliers and has two cross-sectional areas adjacent in the axial direction of the joint bolt (4), of which one, in the coupled state, comes into positive-locking engagement with the profiled flanks (longitudinal-slot flanks 12) of a longitudinal slot (11), lying in the intersection area, of one plier arm (2), and the thinner cross-sectional area is freely displaceable in the longitudinal slot (11). To configure the pliers more favourably from the point of view of manipulation, the invention proposes that one side of the other plier arm (3) be formed with a recess (22) on the actuating side of the joint bolt (4), into which recess (22) the joint-bolt head (15) can be received during actuation, and that a sunk actuating stop be provided for the joint-bolt head (15). <IMAGE>

IPC 1-7

**B25B 7/10**

IPC 8 full level

**B25B 7/10** (2006.01)

CPC (source: EP US)

**B25B 7/10** (2013.01 - EP US)

Citation (search report)

- [A] GB 191210112 A 19121024 - HERMANN ZERVER [DE]
- [AD] EP 0116305 A1 19840822 - PUTSCH GUSTAV KNIPEX WERK [DE]
- [A] GB 2171944 A 19860910 - DREAM CREATION LIMITED
- [A] DE 805265 C 19510510 - WALTER GOTT GESENKSCHMIEDE UND
- [A] US 1885895 A 19321101 - CAREY EDWARD J

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WO2010102986A1; FR2786119A1

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**DE 9113870 U1 19921210**; AT E159447 T1 19971115; DE 59208981 D1 19971127; DE 59209955 D1 20020613; EP 0528252 A1 19930224; EP 0528252 B1 19971022; EP 0774324 A2 19970521; EP 0774324 A3 19970611; EP 0774324 B1 20020508; ES 2108720 T3 19980101; ES 2173344 T3 20021016; JP 3415638 B2 20030609; JP H05192874 A 19930803; US 5461951 A 19951031; US 5676029 A 19971014; US 5845551 A 19981208

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