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PLIERS

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Abstract (en)
[origin: WO2022214471A1] The invention relates to pliers (1) having two plier arms (3 and 4) which cross one another by means of a joint bolt (2) having a joint bolt axis (x) and of which one plier arm (4) may be regarded as movable and the other (3) as stationary; gripping portions (8 and 9) are formed on one side of the joint bolt (2) and jaws (5 and 6) which co-operate as the mouth (7) of the pliers are provided on the other side of the joint bolt (2); furthermore, the movable plier arm (4) has a longitudinal slot (13) with a toothing (16) and the joint bolt (2) located in a receptacle (12) is movable out of a toothing engagement and the movable arm (4) penetrates the stationary plier arm (3); the longitudinal slot (13) has an extent (S) which, with the pliers (1) closed, runs transversely to an orientation of the plier arms (3 and 4) at the gripping end. In order to design pliers of the type in question for safe handling and operation, according to the invention the toothing (16) can be overrun by depression of the joint bolt (2) for adjustment of a mouth opening width (w); the penetrating plier arm (4) has an elongate overlap region (U) in which the penetrating plier arm (4) is overlapped on both sides by the penetrated plier arm (3); furthermore, the overlap region extends (U) substantially at right angles to an adjustment direction (r) of the joint bolt (2) in the longitudinal slot (16), having a width (g), which corresponds to 0.5 times or more of the maximum degree of adjustment (f), and having a length (d), which corresponds to 2 times or more of the maximum degree of adjustment (f).

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