

Title (en)

Belt tensioning tool.

Title (de)

Gurtspannwerkzeug.

Title (fr)

Outil tendeur d'une courroie.

Publication

EP 0111831 A2 19840627 (DE)

Application

EP 83112283 A 19831207

Priority

DE 3246914 A 19821218

Abstract (en)

1. A belt tensioning tool (23) for a belt (10), in particular pretensioned, serving for packing and/or tying purposes, which, to fix the tensioned free belt end (16), is passed through a tension jack (15) therethrough with self-locking belt looping (17), in which the tensioning tool (23) has a base member (44) with an open side wall (25) for introduction, resp. withdrawal (26) of the straight belt portion (27) passing to the tension jack (15), the base member (44) has two pivot bearings (37, 63) spaced apart in a longitudinal direction of the belt, of which the one (37) serves to support an eccentric clamp (30) adapted for actuation by a handle (42), while the other one (63) serves to support a manually swivelled (75) tensioning lever (65), deflecting means (64, 68) are provided on the tensioning lever (65) for selflocking looping (70) of the free belt end (16), and the eccentric clamp (30) has a free clamping end (60) provided with roughed areas (62), which (60) in clamped position presses the straight belt portion (27) introduced through the open side wall into the base member (44) against an abutment (28) on the base member (44), while closing the gap between the belt on the abutment (28) and its pivot bearing (37) parallel to the abutment, which are connected unilaterally by a frame arm of the base member (44), characterized in that the eccentric clamp comprises a plate-shaped clamping block (30) divided transversely into at least two plate members (31, 32), that the plate members (31, 32) of the clamping block (30) are rotatable relative to each other in the plate plane, that the abutment (28) is provided by the lower arm (29) of a C-shaped frame (24) mounted in a plane vertical to the belt extension, having a lateral opening (25), as part of the base member (44), that a tangent line (37) on the inner surface (38) of the upper C-shaped frame arm (39) provides the eccentric pivot bearing of the clamping block (30) for the abutting small face (40) of the upper plate member (31) of the clamping block (30), and that the opposite small face (60) of the lower plate member (32) of the clamping block (30) provides the free clamping end of the eccentric clamp which cooperates with the inner surface (28) of the lower C-shaped frame arm (29), and providing the abutment.

Abstract (de)

Zum Spannen von Gurten für Packungs- und Zurrungszwecke, die mit einer selbsthemmenden Gurteinschlaufung in einem Spannschloß festgehalten werden, wird ein Werkzeug verwendet, das seinerseits eine selbsthemmende Einschlaufung an einem manuell schwenkbaren Spannhebel aufweist. Das Spannwerkzeug wird durch Klemm-Mittel an dem zu spannenden Gurt angesetzt. Um ein einfaches und zuverlässiges Spannen zu gewährleisten, werden als Klemm-Mittel ein C-Rahmen mit seitlichem Ausbruch zum Quereinschieben eines gestreckt bleibenden Gurtstückes verwendet, das über den einen Rahmensteg gelangt. Am gegenüberliegenden Rahmensteg befindet sich die Schwenklagerung für einen Klemmblock, der aus einer den Rahmensteg freigebenden Offenlage in eine Klemmlage überführbar ist. In Klemmlage läßt sich der Klemmblock in Einschwenkrichtung weiterbewegen und an der Gurtpreßstelle ist der Reibungsbeiwert zwischen dem freien Blockende und dem Gurt größer als der Reibungsbeiwert zwischen dem Gurt und der Steg-Innenfläche.

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