

Title (en)

RIVETING PRESS FOR ATTACHING FUNCTIONAL HABERDASHERY ELEMENTS SUCH AS SNAP FASTENER PARTS ONTO SUPPORTS

Publication

EP 0228686 B1 19900307 (DE)

Application

EP 86117829 A 19861220

Priority

DE 3600102 A 19860104

Abstract (en)

[origin: EP0228686A2] 1. Riveting press (10) with an upper and a lower tool (11; 13) to attach a functional haberdashery part (30) such as a press-stud part, eye, hook, rivet head or the like to a carrier (22) such as a garment, by means of a deformable fastening element (31), such as bendable clamps, closeable rivet shafts, pins that can be pushed in, and the like, whose linearly mobile upper tool (11) has two parts and consists on the one hand of a linearly mobile jaw clamp (16) to position an upper element (30) such as a press-stud part on the carrier (22) and on the other hand of a linearly mobile upper stamp (15) for the riveting work between the upper element (30) and the lower element (31) positioned by the lower tool (11; 13), wherein the linear movement (20) of the jaw clamp (16) is effected by muscle power, particularly by operation of a pedal (40), but the linear movement (14, 14') of the upper stamp (15) is generated by a pneumatic piston-cylinder drive (12), on whose piston rod (56) the upper stamp (15) is mounted, and that a pneumatically operable pulse valve (72, 72') can be switched at will between two working positions by alternating control pressure (84, 84'), in which case the piston end of the cylinder (53') is connected with the air pressure source (60) in the one working position (72') and with an outlet (77'; 82) in the other working position (72) for the downward or upward movement (14) of the upper stamp (15), while the jaw clamp (20) carries with it two fixed ramps (107, 107'), of which in the upper dead-end position (16) of the jaw clamp the one ramp (107) connects a first control valve (100) and in the lower dead-end position (16'') of the jaw clamp the other ramp (107') connects a second control valve (100') alternately with the air pressure source (60) on the one hand and a valve outlet (105, 105') on the other hand, and whereas the outputs of the two control valves (100, 100') deliver the alternating control pressure (84, 84') for the switchover (72, 72') of the pulse valve, the control pressure (84) responsible for the return (14') of the upper stamp from its lower deadend position (15'') is only available at the pulse valve (72') if previously the pressure (51') performing the riveting work, building up in the cylinder (12) at the piston end (53'), has reached a certain minimum level.

IPC 1-7

A41H 37/04; B21J 15/28; F16P 3/04

IPC 8 full level

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CPC (source: EP)

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