

Title (en)

Pneumatic vice with incorporated control and safety device

Title (de)

Pneumatischer Schraubstock mit integrierter Steuerungs- und Sicherheitseinrichtung

Title (fr)

Étau pneumatique avec dispositif de commande et de sécurité intégré

Publication

EP 1728593 B1 20121114 (EN)

Application

EP 06425274 A 20060420

Priority

IT FI20050110 A 20050524

Abstract (en)

[origin: EP1728593A2] These vices consist of a base (1) containing special single-action pneumatic groups (2) acting on a slide (3) that slides in a channel machined on the back of the base. Contained in the base, without requiring any increase in size, is the command (4) for the adjustable loads of pre-clamping and clamping and of a check valve located before the pistons. The groups transmit to the slide their thrust, multiplied by the 90° levers (5) with fulcrum in the base, and push the slide through cylindrical surfaces centered at the ends of the short arms and a minute travel (#) in such a way that the mating points between the 90° levers and the slide remain always on the same plane. The mobile shoulder (7) can be locked onto the back of the slide through special means in adhesion to the part to the clamped. Lateral springs (10) in the slide provide for its return. A screw (18) serves to push the slide by (#) in the absence of air.

IPC 8 full level

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CPC (source: EP)

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Cited by

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