

Title (en)
ACCESSORY DEVICE FOR MACHINE VICES

Publication
EP 0115474 B1 19861008 (DE)

Application
EP 84810047 A 19840126

Priority
• CH 54783 A 19830201
• CH 457683 A 19830823

Abstract (en)
[origin: EP0115474A2] 1. Additional device for a machine vice (50) provided with two clamping jaws (12, 13), said device comprising sealed pressure members (40, 45, 45a - 45d) acting in piston-like manner in a casing block (30, 30a - 30d) and which are automatically adjustable in the latter with respect to the workpiece to be fixed counter to the restoring force of a displaceable hydraulic fluid, characterized in that the individual pressure member (40, 45, 45a - 45d) is constructed in one piece and square or rectangular with rounded corners in profile cross-section and is displaceably guided in a chamber (36, 37, 37') of casing block (30, 30a - 30d) constructed corresponding to the pressure member profile cross-section, the clamping surface (42, 47, 47a - 47d) facing the workpiece (25) to be fixed is constructed corresponding to the pressure member profile cross-section and is larger than the remaining casing block surface surrounding the individual pressure members, the circumference of the individual pressure member (40, 45, 45a - 45d) is sealed in the chamber (36, 37, 37') with a packing (41, 46) inserted in a slot (48) and for obtaining an optimum, sealing pressing effect the slot depth (t2) in the vicinity of the rounded corners (R) is somewhat less than the slot depth (t1) on the facing straight sides of the individual pressure member (40, 45, 45a - 45d).

IPC 1-7
B25B 1/24; **B25B 1/20**

IPC 8 full level
B25B 1/24 (2006.01)

CPC (source: EP)
B25B 1/2421 (2013.01)

Cited by
EP0507040A1; FR2768956A1; CN108406630A; DE19954369A1; CN104440293A; US6345816B1

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