

Title (en)
UNIVERSAL SHEET METAL HOLDER

Publication
EP 0100283 B1 19861230 (EN)

Application
EP 83401524 A 19830725

Priority
• US 40144682 A 19820726
• US 40144482 A 19820726

Abstract (en)
[origin: EP0100283A2] A punch press (20) having a worktable (40) for supporting a worksheet (21), a two axis positioning mechanism for positioning the worksheet under a punching head (34) and universal grippers (44, 46) supported on the worksheet positioning mechanism which can grip either the end or sides of a worksheet (21). The two axis positioning mechanism is formed from a carriage (42) which is movable along the worktable (40) and a cross slide (41) which is mounted from and movable across the carriage (42) to provide the two axis sheet positioning. The grippers (44, 46) are mounted from a T-slot (130) formed in the cross slide (41) and can be moved to different positions to accommodate various sheet sizes. Aligning pins (140, 142, 143, 144) which can be used for aligning worksheets are provided. Aligning pins (140, 142, 143, 144) during operation are retracted beneath the worktable (40).

IPC 1-7
B21D 43/11

IPC 8 full level
B21D 28/26 (2006.01); **B21D 37/14** (2006.01); **B21D 43/10** (2006.01)

CPC (source: EP)
B21D 28/265 (2013.01); **B21D 37/14** (2013.01); **B21D 37/147** (2013.01); **B21D 43/10** (2013.01)

Cited by
AT402372B; AT397625B; US6145424A; CN1064868C; EP0865846A4; US7131362B1

Designated contracting state (EPC)
CH DE FR GB IT LI SE

DOCDB simple family (publication)
EP 0100283 A2 19840208; **EP 0100283 A3 19840411**; **EP 0100283 B1 19861230**; EP 0100282 A1 19840208; EP 0100282 B1 19870506

DOCDB simple family (application)
EP 83401524 A 19830725; EP 83401523 A 19830725