

Title (en)
Bending machine

Title (de)
Biegemaschine

Title (fr)
Machine de pliage

Publication
EP 0577068 B1 19960207 (DE)

Application
EP 93110345 A 19930629

Priority

- ES 9201354 A 19920629
- ES 9201884 A 19920921
- ES 9202613 A 19921224
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Abstract (en)
[origin: EP0577068A1] A bending machine for forming metal plates by bending the periphery of a flat sheet-metal blank (19) comprises a bending device with a clamping device having a fixed clamping beam (5), a holding-down device (4) which can be moved in the vertical direction, and bending beams (305, 306), in which arrangement the length of the holding-down device (4) is to be adapted to the bend to be performed and the holding-down device (4) has a modular longitudinal construction with a central portion (6) to which additional portions (7) with a predetermined length and two end portions (118) can be symmetrically fastened, having a transverse edge and a longitudinal edge which runs along the bending line. A manipulator serves to position the sheet (19) in the work plane of the bending device. The holding-down device (4) furthermore has at least one flexible portion (9), which is formed by an assembly of individual segments between which respective elastically compressible spacer elements are arranged in such a way that adjustable spacings can be formed between the segments. External devices serve to produce a reaction against the force of the spacer elements, and limiting devices are provided to limit the maximum spacing between the individual segments. <IMAGE>

IPC 1-7
B21D 5/04

IPC 8 full level
B21D 5/04 (2006.01)

CPC (source: EP)
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Cited by
EP1918037A1; CN109590357A; EP0834356A1; US5941116A; CN1112263C; CN117232992A; CN113828659A; CN114653857A; EP1459815A3; CN111360177A; EP1495816A1; CN107717304A; CN109047510A; EP0694346A1; CN107745059A; CN109867100A; CN109641254A; CN117483567A; CN110310822A; CN118045896A; US7213438B2; CN108057793A; CN114290653A; CN117000843A; CN118305208A; CN109572051A; CN110164282A; CN117863028A

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