

Title (en)

Machine suitable for automatically transforming bands of metal sheet into beams that are bent longitudinally according to electronically programmable profiles, as well as punched, drawn and bent transversally.

Title (de)

Vorrichtung zum automatischen Umformen von metallischen Bändern in Träger durch longitudinales transversales Biegen, Stanzen und Ziehen nach elektronisch programmierbaren Profilen.

Title (fr)

Machine de transformation de bandes de feuilles de métal en profilés pliés longitudinalement suivant des profils programmés électroniquement, et ces profilés sont aussi poinçonnés, étirés et pliés transversalement.

Publication

**EP 0475469 A2 19920318 (EN)**

Application

**EP 91201231 A 19910524**

Priority

IT 2142590 A 19900911

Abstract (en)

The machine comprises two prisms (9, 10) having a vertical axis and a polygonal cross-section with lateral faces which support respective half-dies co-operating with one another in twos to bend, draw, punch or otherwise process a band of sheet metal placed between them. Means (13, 14) are provided for causing the rotation of said prisms (9, 10) with respect to their vertical axes for the positioning of the half-dies in respective operating positions opposite to one another and means (15, 16) for causing said prisms (9, 10) to move reciprocally closer and further away in a vertical plane comprising said axes. There are further provided means (109-124) for causing a further limited rotation of one (10) of the two prisms after said operating position has been reached and during a bending operation of the band of sheet metal. There is associated a manipulator (18) provided with a replaceable grasping clamp (36) suitable for vertically supporting from above a band of sheet metal and provided with the possibility of movement along a first horizontal axis passing between the above prisms (9, 10) and perpendicular to said vertical plane of movement of the prisms, along a second horizontal axis perpendicular to the former and along and on a vertical axis of rotation (37). There is lastly provided a clamp magazine (19) accessible by the manipulator (18) for the replacement of said clamp (36) between one process and the other. <IMAGE>

IPC 1-7

**B21D 35/00; B21D 47/01**

IPC 8 full level

**B21D 5/04** (2006.01); **B21D 28/02** (2006.01); **B21D 5/01** (2006.01); **B21D 35/00** (2006.01); **B30B 1/32** (2006.01); **B30B 1/34** (2006.01); **B30B 15/02** (2006.01)

CPC (source: EP)

**B21D 5/045** (2013.01); **B21D 35/00** (2013.01)

Cited by

CN106825137A

Designated contracting state (EPC)

AT BE CH DE ES FR GB IT LI NL SE

DOCDB simple family (publication)

**EP 0475469 A2 19920318; EP 0475469 A3 19930317**; IT 1244306 B 19940708; IT 9021425 A0 19900911; IT 9021425 A1 19920311; JP 2992844 B2 19991220; JP H05115928 A 19930514

DOCDB simple family (application)

**EP 91201231 A 19910524**; IT 2142590 A 19900911; JP 14334891 A 19910614