

Title (en)  
A machine for punching sheet metal

Title (de)  
Vorrichtung zum Stanzen von Blechen

Title (fr)  
Dispositif pour le poinçonnage de tôles

Publication  
**EP 0839594 A1 19980506 (EN)**

Application  
**EP 97203315 A 19971024**

Priority  
IT MI962256 A 19961031

Abstract (en)  
A machine for punching sheet metal comprises means (3, 4, 5, 7) for feeding a sheet metal strip (1) to means (8, 9) for punching the strip (1) of sheet metal. Said means for punching the strip (1) comprise a plurality of punching presses each comprising a plurality of elementary individual punching tools (20, 21) that can be operated individually. Each of said punching presses has a supporting structure (16) shaped like a swan's neck with an intermediate channel (100) through which there passes the sheet metal strip (1); the punching presses (8, 9) are arranged in sequence along the longitudinal direction of the strip (1) so as to extend in part on one side and in part on the other side of the strip (1), and they are independently mobile along a transversal direction of the strip (1), so as to allow the complete extraction of the strip (1) from the respective channels (100) and the complete extraction of each swan's neck structure from the space extending between two adjacent swan's necks, and along the longitudinal direction of the strip (1) so as to allow the interchangeability of the individual punching presses (8, 9) within said sequence, so as to be able to position the respective elementary punching tools (20, 21) according to an arrangement pre-established in the plan of operations. <IMAGE>

IPC 1-7  
**B21D 28/26**

IPC 8 full level  
**B21D 28/06** (2006.01); **B21D 28/24** (2006.01); **B21D 28/26** (2006.01)

CPC (source: EP)  
**B21D 28/06** (2013.01); **B21D 28/246** (2013.01); **B21D 28/265** (2013.01)

Citation (search report)  
• [X] US 3880020 A 19750429 - CLEM DENNIS W  
• [A] FR 2540422 A1 19840810 - MERLIN GERIN [FR]  
• [A] EP 0658383 A1 19950621 - FELSNER FRANZ [AT]  
• [A] EP 0367185 A2 19900509 - USHIO KK [JP]

Cited by  
EP2952270A1; CN110802150A; AU2009222452B2; ITVE20100032A1; WO2008103020A1; WO03015953A1

Designated contracting state (EPC)  
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**EP 0839594 A1 19980506**; IT 1287112 B1 19980804; IT MI962256 A1 19980501

DOCDB simple family (application)  
**EP 97203315 A 19971024**; IT MI962256 A 19961031