

Title (en)
FEEDING APPARATUS FOR SHEET WORK SUPPORTING TABLES

Publication
EP 0108304 B1 19870304 (DE)

Application
EP 83110413 A 19831019

Priority
CH 648882 A 19821109

Abstract (en)
[origin: US4515050A] Sheet metal plates are automatically fed for processing to a computerized numerically controlled sheet shear arrangement by means of the feeding apparatus. This feeding apparatus comprises a feeding bar arranged parallel to the cutting blades of the sheet shear arrangement and movable perpendicular thereto. Elevationally displaceable or movable holding elements are arranged on opposite sides of the feeding bar. On the side of the cutting blades the holding elements retain a first sheet metal plate intended to be cut and on the opposite side grip a second sheet metal plate which has been elevated by suction elements. During the cutting operation performed upon the first sheet metal plate the second sheet metal plate is drawn to a working table within an overlapping time interval and placed upon the working table. After sectioning the first sheet metal plate the second sheet metal plate bearing upon the working table is pressed against stops located on the rear side of the working table conjointly with the rearward movement of the empty feeding bar. Subsequently the second sheet metal plate is gripped by the holding elements on the cutting blade side of the feeding bar and the same operation starts anew. In addition to the described automatic sheet metal feeding operation downwardly pivotable and weight-balanced working tables permit access to the sheet shear arrangement for performing conventional manual cutting operations in case special sections or blanks should be cut or small series of blanks or sections should be cut.

IPC 1-7
B21D 43/28

IPC 8 full level
B21D 43/00 (2006.01); **B21D 43/28** (2006.01); **B23D 33/02** (2006.01); **B65H 5/10** (2006.01)

CPC (source: EP US)
B21D 43/287 (2013.01 - EP US); **Y10T 83/173** (2015.04 - EP US); **Y10T 83/2081** (2015.04 - EP US); **Y10T 83/4642** (2015.04 - EP US)

Cited by
CN104550520A; CN105365264A; EP0262442A3; EP0498345A3; CN110773659A; CN108637077A; US6955278B2

Designated contracting state (EPC)
AT DE FR GB

DOCDB simple family (publication)
EP 0108304 A1 19840516; **EP 0108304 B1 19870304**; AT E25601 T1 19870315; CH 657797 A5 19860930; DE 3369918 D1 19870409; JP S59102516 A 19840613; US 4515050 A 19850507

DOCDB simple family (application)
EP 83110413 A 19831019; AT 83110413 T 19831019; CH 648882 A 19821109; DE 3369918 T 19831019; JP 20731883 A 19831104; US 54758383 A 19831101