

Title (en)

MULTISTAGE METAL-FORMING MACHINE

Publication

EP 0041690 A3 19820317 (DE)

Application

EP 81104252 A 19810603

Priority

DE 3021695 A 19800610

Abstract (en)

[origin: US4430882A] A blank (17), which has been sheared off from a coil of wire or from a rod, is rotated through 90 DEG , this rotation being required in connection with the forging of this blank. The gripping-jaws (19, 20), serving for the purpose of transport from one station to the adjacent metal-working station, are attached, for this purpose, to rotating devices (9c, 9d), which are mounted in a manner permitting rotation and are located, on the one hand, on a guide part (7a, 7b) which is driven to reciprocate (A) and to oscillate about an axis (93), and, on the other hand, are anchored to the stationary die-holder (3) via a guiding mechanism (23a, 23b). The guiding mechanism can be regarded as a spatial double-link mechanism, possessing a connecting rod (24), a coupling link (25), a stationary pin-joint (28), a ball-joint (30), and a pin-joint (29a, 29b) which travels with the rotation device (9c, 9d). The components are arranged in such a way that the greatest part of the intended 90 DEG rotation of the blank takes place in the first half of the translational transport movement.

IPC 1-7

B21D 43/10; B21J 13/10; B21K 27/04

IPC 8 full level

B21D 43/10 (2006.01); **B21J 9/06** (2006.01); **B21J 13/08** (2006.01); **B21J 13/10** (2006.01); **B21K 27/00** (2006.01); **B21K 27/04** (2006.01)

CPC (source: EP US)

B21J 13/08 (2013.01 - EP US); **B21K 27/00** (2013.01 - EP US); **B21K 27/04** (2013.01 - EP US)

Citation (search report)

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Designated contracting state (EPC)

AT BE CH DE FR GB IT NL SE

DOCDB simple family (publication)

EP 0041690 A2 19811216; EP 0041690 A3 19820317; EP 0041690 B1 19840328; EP 0041690 B2 19881130; AT E6834 T1 19840415;
DE 3162864 D1 19840503; JP S5725238 A 19820210; JP S6018266 B2 19850509; US 4430882 A 19840214

DOCDB simple family (application)

EP 81104252 A 19810603; AT 81104252 T 19810603; DE 3162864 T 19810603; JP 8368981 A 19810530; US 26820681 A 19810529