

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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