

Title (en)

Device for bending and/or punching and/or upsetting wire or strip

Title (de)

Vorrichtung zum Biegen und/oder Stanzen und/oder Stauchen von Draht-oder steifenartigen Blechteilen

Title (fr)

Dispositif de cintrage et/ou d'estampage et/ou de refoulement de fil ou bande métallique

Publication

EP 1093869 A3 20020724 (DE)

Application

EP 00116924 A 20000805

Priority

DE 19950297 A 19991019

Abstract (en)

[origin: EP1093869A2] The device has a machine table and electronically controlled tools with hydraulic-mechanical drives. Each drive (1) is a hydraulic cylinder, and for pressure charging, it has an electric motor (3) with transmission (4,5), which acts on the piston (11) associated with the cylinder. The motor is a stepping motor and there is a spindle drive (4) for power transmission from piston to cylinder. All components are part of a module located in a frame.

IPC 1-7

B21F 1/00; **B21J 9/10**

IPC 8 full level

B21F 1/00 (2006.01); **B21F 5/00** (2006.01)

CPC (source: EP US)

B21F 1/00 (2013.01 - EP US); **B21F 5/00** (2013.01 - EP US); **B21F 99/00** (2013.01 - EP US)

Citation (search report)

- [XA] DE 2720398 A1 19781109 - WAFIOS MASCHINEN WAGNER
- [A] DE 2149068 A1 19730419 - HACK HILDA, et al
- [A] PATENT ABSTRACTS OF JAPAN vol. 010, no. 018 (M - 448) 24 January 1986 (1986-01-24)

Cited by

CN106513537A; CN108160863A; DE102022114732B4

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 1093869 A2 20010425; **EP 1093869 A3 20020724**; **EP 1093869 B1 20050119**; DE 19950297 C1 20010517; ES 2233249 T3 20050616; US 6378353 B1 20020430

DOCDB simple family (application)

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