

Title (en)
STAMPING AND BENDING TOOL AGGREGATE

Publication
EP 0121826 A3 19850130 (DE)

Application
EP 84102866 A 19840315

Priority
DE 3312671 A 19830408

Abstract (en)
[origin: US4607517A] A stamping and bending tool assembly is described for automatically making bent parts of wire or strip or like raw materials. The tool assembly comprises a plurality of bending carriages which are grouped around a circular tool carrier table with central work station and secured to the housing frame and are controlled by respective cams driven by a respective drive pinion engaged in a central ring gear. The central work station is preceded by at least one cutting tool working in timed sequence with the bending carriages and possibly by at least one take-in apparatus for raw material. The bending carriages together with the cutting tool and possibly with the take-in apparatus for raw material are combined on the circular tool carrier table to form a tool group unit positively driven by way of the central ring gear and the drive pinions in mesh therewith, and the tool carrier table is in the form of a quick replacement plate centrally connected to the housing frame and with which the mutual angular relationship obtaining during the operation of the tool assembly for all the tool drive pinions can be secured when the replacement plate is removed. By means of this high-power tool assembly, it is possible to minimize the prolonged down times hitherto necessarily occurring during replacement of the bending-shaping tool.

IPC 1-7
B21D 5/00; B21F 1/00

IPC 8 full level
B21D 5/00 (2006.01); **B21F 1/00** (2006.01); **B21F 11/00** (2006.01)

CPC (source: EP US)
B21F 1/00 (2013.01 - EP US)

Citation (search report)
• [X] DE 2737442 B2 19800110
• [X] GB 2073071 A 19811014 - WUENSCH A
• [A] DE 3200473 C1 19910508 - WUENSCH ADOLF
• [A] DE 3028833 A1 19820225 - WUENSCH ADOLF
• [A] DE 2926905 A1 19800124 - BUCH AUGUSTO

Cited by
EP0790088A3; DE19953283A1; EP1529578A1; EP0258109A1; FR2602159A1; WO8903747A1

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
EP 0121826 A2 19841017; EP 0121826 A3 19850130; EP 0121826 B1 19870722; AT E28417 T1 19870815; DE 3312671 A1 19841011; DE 3312671 C2 19920723; DE 3464861 D1 19870827; JP H0456691 B2 19920909; JP S6040632 A 19850304; US 4607517 A 19860826

DOCDB simple family (application)
EP 84102866 A 19840315; AT 84102866 T 19840315; DE 3312671 A 19830408; DE 3464861 T 19840315; JP 6896284 A 19840406; US 59033584 A 19840316