

Title (en)
DEVICE AT A MACHINE FOR DEFORMATION WORK OF SHEET METALS

Publication
EP 0166351 A3 19860917 (DE)

Application
EP 85107474 A 19850615

Priority
CH 310284 A 19840627

Abstract (en)
[origin: EP0166351A2] Mounted on a forming machine for sheet material (2) which has the unwanted property of springback especially in the case of bending, is a device which contains the following components or subassemblies: - during the bending process, a sensor (10, 20, 30, 60) detects the amount and direction of the bending (X, alpha) of the sheet material (2) and/or, upon retraction of the tool (1, 3, 7) from its set position, the amount and direction of the springback (DELTA X, DELTA alpha) of the sheet material (2) relieved from the load of the tool (1, 3, 7); - a downstream conversion member (14, 28, 29, 36, 61) produces electrical signals which correspond to the detected amount and direction of the bending (X, alpha) and/or springback (DELTA X, DELTA alpha); - taking into account the characteristic values of the sheet material (2) and of the tool (1, 3, 7) and the detected bending (X, alpha) and springback (DELTA X, DELTA alpha), a signal for the set position of the tool (1, 3, 7) is produced and stored in an electronic circuit (40) and passed to actuators (50) which move the tool (1, 3, 7) into the set position. <IMAGE>

IPC 1-7
B21D 5/01

IPC 8 full level
B21D 5/02 (2006.01)

CPC (source: EP)
B21D 5/006 (2013.01); **B21D 5/02** (2013.01)

Citation (search report)
• [X] US 4430879 A 19840214 - ROLLAND BURTON A [US]
• [X] DE 2901376 A1 19800717 - MENGELE & SOEHNE MASCH KARL
• [X] DE 3245753 A1 19840614 - DORSTENER MASCHF AG [DE]
• [A] DE 1452836 B2 19730920
• [A] DE 2305283 B2 19790621
• [A] DE 2044199 A1 19720323

Cited by
US4979385A; FR2601603A1; US5148693A; CN107350411A; NL1004820C2; US4947666A; EP0316703A3; US5007264A; DE102018133551A1; DE102018133551B4; AT506313B1; US5099666A; AT412071B; US5603236A; FR2796320A1; NL1013378C2; NL1021181C2; US4802357A; CN114505374A; US5842366A; US4966029A; AT389829B; AT390575B; DE10006512A1; DE10006512C2; BE1007424A5; US5829288A; US5168737A; WO2014165885A1; WO9641690A1; WO9505905A1; WO2012071850A1; WO2016094918A1; EP2092991A2; US10464114B2; US7448242B2; US7281403B2; WO03015951A1; WO9858753A1; WO0103863A1; WO0128706A1; US6539763B1; US6651472B2; US6644082B2; US6771363B1; WO9846378A1; WO8801916A1; EP1589279B2

Designated contracting state (EPC)
BE DE FR GB NL

DOCDB simple family (publication)
EP 0166351 A2 19860102; EP 0166351 A3 19860917

DOCDB simple family (application)
EP 85107474 A 19850615