

Title (en)
METHOD AND MACHINE FOR BENDING WORKPIECES

Title (de)
VERFAHREN UND BEARBEITUNGSMASCHINE ZUM ABKANTEN VON WERKSTÜCKEN

Title (fr)
PROCEDE ET MACHINE POUR LE PLIAGE DE PIECES

Publication
EP 0775028 B1 19990818 (DE)

Application
EP 96922796 A 19960611

Priority
• DE 19521369 A 19950612
• EP 9602531 W 19960611

Abstract (en)
[origin: US5842366A] PCT No. PCT/EP96/02531 Sec. 371 Date Feb. 7, 1997 Sec. 102(e) Date Feb. 7, 1997 PCT Filed Jun. 11, 1996 PCT Pub. No. WO96/41690 PCT Pub. Date Dec. 27, 1996As part of a process for bending workpieces (14), when the workpiece (14) is released from the upper die (8) and/or the lower die (10), the actual size of the bending angle (beta) is continually determined; from the actual size of the bending angle (beta) found, the change in it is determined and, as soon as the change in the actual size of the bending angle (beta) assumes a predetermined value, the actual size of the then existing bending angle (beta) is compared with the desired size. On a tooling machine for carrying out the method described, there are scanning elements (17,18) and a device (24) for determining the actual size of the bending angle (beta) that are parts of a device (19) for determining the change in the actual size of the bending angle (beta). The device (24) for determining the actual size of the bending angle (beta) is connected to a comparison device (32) for comparing the actual size of the bending angle (beta) to the desired size.

IPC 1-7
B21D 5/02

IPC 8 full level
B21D 5/02 (2006.01)

CPC (source: EP US)
B21D 5/006 (2013.01 - EP); **B21D 5/02** (2013.01 - EP US); **Y10S 72/702** (2013.01 - EP US)

Cited by
EP2085162A1; DE10009074B4; CH695668A5; WO03076099A1

Designated contracting state (EPC)
AT CH DE FR GB IT LI

DOCDB simple family (publication)
US 5842366 A 19981201; AT E183416 T1 19990915; DE 19521369 A1 19961219; DE 19521369 C2 20000629; DE 29623800 U1 19991104; DE 59602793 D1 19990923; EP 0775028 A1 19970528; EP 0775028 B1 19990818; JP 3559288 B2 20040825; JP H10503972 A 19980414; WO 9641690 A1 19961227

DOCDB simple family (application)
US 77686297 A 19970207; AT 96922796 T 19960611; DE 19521369 A 19950612; DE 29623800 U 19960611; DE 59602793 T 19960611; EP 9602531 W 19960611; EP 96922796 A 19960611; JP 52976296 A 19960611