

Title (en)
APPARATUS FOR BENDING TUBES IN CRANK OR S SHAPE

Publication
EP 0025002 B1 19830622 (FR)

Application
EP 80420102 A 19800825

Priority
FR 7922359 A 19790903

Abstract (en)
[origin: EP0025002A1] 1. Apparatus for bending the tubes (T), in the form of a gendarme hat or of an ess, of the type comprising a mobile stamping form (4) between two counter-forms (8) maintained on a framework (1) with counter-abutment rollers (13) of the free portions of the tube (T) to be bent, mounted on a support which is sliding relative to said framework (1) with axial handling means, the lateral counter-forms (8) mounted on the same framework (1) receiving the push rod of the form (4) and the control means for the shifting thereof, and co-operating tangentially along the supporting points of the tube (T), prior to the bending thereof, with counter-abutment rollers (13), characterized in that these counter-abutment rollers (13) are mounted on a support (9) to provide a clamping of the tube (T) and that the form (4) is made mobile independently of the counter-abutment rollers (13) in order to provide during the bending process by partial of the portions of the tube (T) on the counter-forms (8) a guiding, sliding and rolling effect for the whole time of the operation, so as to make possible without any distortion the machining of thin tubes and the production of branch pipes which are substantially parallel.

IPC 1-7
B21D 7/06

IPC 8 full level
B21D 7/06 (2006.01)

CPC (source: EP)
B21D 7/06 (2013.01)

Cited by
DE102008033862A1; JPS63171219A; EP0398486A3; GB2231518A; EP0875308A3

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

DOCDB simple family (publication)
EP 0025002 A1 19810311; EP 0025002 B1 19830622; AT E3819 T1 19830715; DE 3063896 D1 19830728; DK 367780 A 19810304; FI 802758 A 19810304; FR 2464109 A1 19810306; FR 2464109 B1 19831028; NO 153324 B 19851118; NO 153324 C 19860226; NO 802568 L 19810304

DOCDB simple family (application)
EP 80420102 A 19800825; AT 80420102 T 19800825; DE 3063896 T 19800825; DK 367780 A 19800829; FI 802758 A 19800902; FR 7922359 A 19790903; NO 802568 A 19800901