

Title (en)  
MACHINE FOR BENDING OF TUBES, BARS OR PROFILES

Publication  
**EP 0168331 A3 19861008 (FR)**

Application  
**EP 85420086 A 19850509**

Priority  
FR 8411321 A 19840710

Abstract (en)  
[origin: ES8607768A1] A machine for bending an elongated workpiece extending along a longitudinal axis has a housing and a holder on the housing for retaining the workpiece with its axis nondisplaceable relative to the housing and for advancing the workpiece in a feed direction parallel to the axis. A support defining a mandrel axis transverse to the longitudinal axis and spaced transversely therefrom is displaceable with the mandrel axis on the housing transverse to the longitudinal workpiece axis. A mandrel carried directly on the support is formed with an arcuate groove centered on the mandrel axis. This mandrel carries an inner jaw forming a continuation of the groove and is rotatable therewith on the support about the mandrel axis. An arm mounted directly on the support pivotal about the mandrel axis carries an outer jaw generally complementary to the inner jaw and a guide carried directly on the housing mainly upstream of the mandrel has a guide groove confronting the groove of the mandrel and centered on the longitudinal workpiece axis. A jaw actuator can displace the outer jaw on the arm radially of the mandrel axis. A guide actuator can displace the guide on the housing transversely of the feed direction and independently of the support. A support actuator displaces the support and the jaws and mandrel carried thereby transverse to the direction and independently of the guide. A pivot actuator pivots the support about the mandrel axis to bend the workpiece between the jaws and the guide.

IPC 1-7  
**B21D 7/024**

IPC 8 full level  
**B21D 7/025** (2006.01); **B21D 7/024** (2006.01)

CPC (source: EP US)  
**B21D 7/024** (2013.01 - EP US)

Citation (search report)  
• [Y] DE 2910174 A1 19800925 - BENTELER WERKE AG  
• [Y] US 4126030 A 19781121 - ZOLLWEG RICHARD T, et al  
• [A] DE 2537382 A1 19770303 - BABCOCK AG  
• [A] US 4178788 A 19791218 - EATON HOMER L [US], et al

Cited by  
EP2799158A1; EP0319400A1; FR2624038A1; ITRM20130259A1; US9878361B2

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

DOCDB simple family (publication)  
**EP 0168331 A2 19860115; EP 0168331 A3 19861008; EP 0168331 B1 19900620**; AT E53950 T1 19900715; CA 1291697 C 19911105; DE 3578316 D1 19900726; ES 544059 A0 19860616; ES 8607768 A1 19860616; FR 2567429 A1 19860117; FR 2567429 B1 19920327; JP S6138720 A 19860224; US 4625531 A 19861202

DOCDB simple family (application)  
**EP 85420086 A 19850509**; AT 85420086 T 19850509; CA 483145 A 19850604; DE 3578316 T 19850509; ES 544059 A 19850612; FR 8411321 A 19840710; JP 14940085 A 19850709; US 75331485 A 19850709