

Title (en)

METHOD AND FORMING TOOL FOR THE PRODUCTION OF CYLINDRICAL TUBES BY EXTRUSION

Title (de)

VERFAHREN UND UMFORMWERKZEUG ZUR ZYLINDERROHRHERSTELLUNG MITTELS FLIESSPRESSEN

Title (fr)

PROCEDE ET OUTIL DE DEFORMATION POUR LA FABRICATION DE TUBES CYLINDRIQUES PAR FORMAGE PAR FLUAGE

Publication

EP 1250199 A1 20021023 (DE)

Application

EP 01909499 A 20010119

Priority

- DE 0100227 W 20010119
- DE 10004732 A 20000128

Abstract (en)

[origin: WO0154839A1] The invention relates to a method for producing cylindrical tubes by plastically deforming a hollow-cylindrical slug (3) by extrusion to a cylindrical tube. According to the inventive method, the slug is introduced into a substantially cylindrical drawing die (2) up to a stop (4). A drawing mandrel (6) that has an outer diameter that is larger than the inner diameter of the slug is moved in the drawing die through the hollow space of the slug. Due to the flowing of the slug material pressed by the drawing mandrel, the length of the slug increases while the cross-section of the wall of the slug is reduced. The inner diameter of the drawing die and the outer diameter of the slug are chosen such that there is a radial play between the drawing die and the slug. When the drawing mandrel is drawn through the drawing die, the wall of the slug is radially pressed against the die, thereby expanding the outer diameter of the slug.

IPC 1-7

B21C 37/30; **B21C 1/24**

IPC 8 full level

B21C 1/24 (2006.01); **B21C 37/30** (2006.01)

CPC (source: EP)

B21C 1/24 (2013.01); **B21C 37/30** (2013.01)

Citation (search report)

See references of WO 0154839A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 0154839 A1 20010802; AT E245499 T1 20030815; AU 3722901 A 20010807; DE 10190194 D2 20030220; DE 50100414 D1 20030828; EP 1250199 A1 20021023; EP 1250199 B1 20030723

DOCDB simple family (application)

DE 0100227 W 20010119; AT 01909499 T 20010119; AU 3722901 A 20010119; DE 10190194 T 20010119; DE 50100414 T 20010119; EP 01909499 A 20010119