

Title (en)
Forming press

Title (de)
Umformpresse

Title (fr)
Presse de formage

Publication
EP 1321203 B1 20070801 (DE)

Application
EP 02027171 A 20021205

Priority
DE 10162440 A 20011219

Abstract (en)
[origin: EP1321203A2] The deforming press includes an appropriately-shaped shaping cavity (9) to create a bulge (8) on the tubular workpiece (7), with a counter-holder (10) taken into the cavity in the deforming direction to control the deformation rate and deformation depth. A slide (12) in the side opposite the counter-holder can control the flow of material towards the bulge.

IPC 8 full level
B21C 37/15 (2006.01); **B21C 37/29** (2006.01); **B21D 26/037** (2011.01); **B21D 26/047** (2011.01); **B21J 5/04** (2006.01)

CPC (source: EP)
B21C 37/294 (2013.01); **B21D 22/025** (2013.01); **B21D 26/037** (2013.01); **B21D 26/047** (2013.01)

Citation (examination)
• EP 1063029 A1 20001227 - BENTELER WERKE AG [DE]
• JP 2001340922 A 20011211 - KAWASAKI STEEL CO

Cited by
CN103920789A; WO2007003285A1

Designated contracting state (EPC)
DE FR GB IT

DOCDB simple family (publication)
EP 1321203 A2 20030625; EP 1321203 A3 20050309; EP 1321203 B1 20070801; DE 10162440 A1 20030703; DE 50210587 D1 20070913

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