

Title (en)

Process and device for creating a relatively sharp-edged depression in a workpiece during internal pressure forming

Title (de)

Verfahren und Vorrichtung zum Erzeugen einer verhältnismässig scharfkantigen Einsenkung an einem Werkstück bei der Innendruckumformung

Title (fr)

Procédé et dispositif pour réaliser sur une pièce une dépression aux bords sensiblement vifs lors du formage par pression interne

Publication

EP 0824047 B1 20021120 (DE)

Application

EP 97113478 A 19970805

Priority

DE 19632776 A 19960814

Abstract (en)

[origin: EP0824047A1] A form tool (1) is used, in which a part (9) formed as a die is controllably movable for formation of the cavity in the workpiece. A displaceable retainer (8,11) for the tool part is fitted in the form tool, preferably in an upper part. The retainer is arranged as a piston (8) in a prismatic or cylindrical hollow space (6) with a bush (7) made of low-friction material. In connection with the hollow space, a hydraulic cylinder unit (13), preferably provided with a path meter (17), is fitted to the outside of the form tool. The piston is fitted on the connecting rod (14) for the cylinder.

IPC 1-7

B21D 26/02

IPC 8 full level

B21D 22/02 (2006.01); **B21D 22/10** (2006.01); **B21D 26/02** (2006.01); **B21D 26/033** (2011.01)

CPC (source: EP)

B21D 22/025 (2013.01); **B21D 22/105** (2013.01); **B21D 22/205** (2013.01); **B21D 26/033** (2013.01)

Cited by

EP0895819A1; CN104525752A; US6581263B1; US7024769B2

Designated contracting state (EPC)

DE ES FR GB IT PT SE

DOCDB simple family (publication)

EP 0824047 A1 19980218; **EP 0824047 B1 20021120**; DE 19644401 A1 19980219; DE 59708752 D1 20030102

DOCDB simple family (application)

EP 97113478 A 19970805; DE 19644401 A 19961025; DE 59708752 T 19970805