

Title (en)

Flexibly applicable die for high pressure forming

Title (de)

Flexibel einsetzbares Werkzeug zum Innenhochdruckumformen

Title (fr)

Outil pour formage à haute pression utilisable avec flexibilité

Publication

EP 0845312 B1 20030409 (DE)

Application

EP 97121023 A 19971129

Priority

DE 19649629 A 19961202

Abstract (en)

[origin: EP0845312A1] The versatile tool for forming by high internal pressure with use of a tool top section (1) and a tool bottom section (2), with a high internal pressure produced in the latter is characterised by the a) the top tool section containing elements in the form of an axially displaceable punch (7) and/or a die (6); b) a high-pressure space (4) is located in the tool bottom section opposite to the punch and/or the die; c) similarly, this high-pressure space can be shaped by insertion of appropriately shaped elements; d) by means of a bore (5) the space (4) can be joined to a pressure transfer medium; e) by local pressure application the sheet-metal blank (3) can be formed and/or cut by an appropriate choice and form of the tool elements.

IPC 1-7

B21D 26/02

IPC 8 full level

B21D 26/02 (2011.01); **B21D 26/023** (2011.01); **B21D 26/031** (2011.01)

CPC (source: EP)

B21D 26/02 (2013.01); **B21D 26/023** (2013.01); **B21D 26/031** (2013.01)

Cited by

EP1529575A3; CN109482718A; CN113860726A

Designated contracting state (EPC)

AT BE DE ES FR GB IT NL

DOCDB simple family (publication)

EP 0845312 A1 19980603; **EP 0845312 B1 20030409**; AT E236745 T1 20030415; DE 19649629 A1 19980604; DE 19649629 C2 19990107; DE 59709768 D1 20030515; ES 2196244 T3 20031216

DOCDB simple family (application)

EP 97121023 A 19971129; AT 97121023 T 19971129; DE 19649629 A 19961202; DE 59709768 T 19971129; ES 97121023 T 19971129