

Title (en)

Method and device for sealing a hollow profile or similar workpiece in high pressure forming

Title (de)

Verfahren und Vorrichtung zum Abdichten eines Hohlprofils od.dgl. Werkstückes auf dem Wege des Innenhochdruck-Umformens

Title (fr)

Méthode et dispositif pour étancher un profilé creux ou similaire pendant le formage à haute pression

Publication

EP 0995512 B1 20031022 (DE)

Application

EP 99810889 A 19991001

Priority

- DE 19846467 A 19981008
- DE 19909949 A 19990306

Abstract (en)

[origin: EP0995512A2] The deformation process comprises deforming the workpiece (10) with working fluid flowing through its cavity (12) by a punch (16). At least one sealing element (26) is taken outward radially through the working fluid and is laid against a joint (36) between the strip and the punch. The working fluid is taken out of the cavity for the sealing element and into the strip cavity. An Independent claim is also included for a device to implement the process, comprising a punch extension made as a separate part, joined to the head part of the punch which forms the radial shoulder surface. The annular groove may project in an axially parallel direction part of the way into the shoulder surface.

IPC 1-7

B21D 26/02

IPC 8 full level

B21D 26/045 (2011.01)

CPC (source: EP)

B21D 26/045 (2013.01)

Cited by

EP1208926A3; EP1475168A1; CN114618933A; EP1275448A3; CN117619984A

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 0995512 A2 20000426; EP 0995512 A3 20010411; EP 0995512 B1 20031022; AT E252429 T1 20031115; ES 2209372 T3 20040616

DOCDB simple family (application)

EP 99810889 A 19991001; AT 99810889 T 19991001; ES 99810889 T 19991001