

Title (en)

METHOD AND DEVICE FOR PRODUCING A CUTOUT OR APERTURE IN THE WALL OF A COMPONENT FORMED ACCORDING TO THE HYDROFORMING PROCESS

Title (de)

VERFAHREN UND VORRICHTUNG ZUM HERSTELLEN EINES AUSSCHNITTES ODER DURCHBRUCHS IN DER WANDUNG EINES NACH DEM INNENHOCHDRUCK-UMFORMVERFAHREN AUSGEBILDETEN BAUTEILS

Title (fr)

PROCEDE ET DISPOSITIF DE Formation D'UNE DECOUPE OU D'UNE PERFORATION DANS LA PAROI D'UN COMPOSANT FORME PAR UN PROCEDE DE FACONNAGE SOUS HAUTE PRESSION INTERIEURE

Publication

EP 1986801 B1 20100526 (DE)

Application

EP 07702923 A 20070122

Priority

- EP 2007000495 W 20070122
- DE 102006007224 A 20060215

Abstract (en)

[origin: WO2007093269A1] The invention relates to a method of producing a cutout or aperture in the wall of a component formed according to the hydroforming process, for example a hollow body which is located in the forming tool (1), by means of a punch (8, 10) which is displaceable from outside to inside or from inside to outside and which is pressed into the wall of the hollow body. In order to carry out a cutting process in the tool, it is proposed that the wall of the initial workpiece or workpiece mounted in the forming tool (1) and fixed and positioned preferably with sealing plungers (3, 4) first of all be precut abruptly by means of the punch (8, 10) except for a residual wall thickness. The forming process is combined with processes of chipless forming for processing the apertures and cutouts and with finishing, which take place in the tool. Furthermore, a corresponding device is proposed.

IPC 8 full level

B21D 28/28 (2006.01); **B21D 26/035** (2011.01)

CPC (source: EP)

B21D 26/035 (2013.01); **B21D 28/28** (2013.01)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

DE 102006007224 A1 20070816; AT E468930 T1 20100615; CN 101454093 A 20090610; CN 101454093 B 20120418; DE 502007003933 D1 20100708; EP 1986801 A1 20081105; EP 1986801 B1 20100526; WO 2007093269 A1 20070823

DOCDB simple family (application)

DE 102006007224 A 20060215; AT 07702923 T 20070122; CN 200780005508 A 20070122; DE 502007003933 T 20070122; EP 07702923 A 20070122; EP 2007000495 W 20070122