

Title (en)

Device for hydroforming hollow bend undercut products

Title (de)

Vorrichtung zur Herstellung bauchiger hinterschnittener Hohlkörper mittels Innenhochdruckumformverfahren

Title (fr)

Dispositif pour la fabrication de produits creux courbes contre-dépouillés par hydroformage

Publication

EP 1029611 B1 20030514 (DE)

Application

EP 00103174 A 20000216

Priority

DE 19907247 A 19990219

Abstract (en)

[origin: EP1029611A2] The process uses two work piece parts (1,2), one of which is cup-shaped and has a flange. The parts are pressed together in the area of the flange, in a forming tool, are together subjected to an internal high pressure forming process, and machined further separately or together. During the pressure medium-tight pressing, the parts execute a movement relative to each other, and stamping takes place in the flange area (1.1,1.2), to influence material flow and/or aid sealing and/or achieve position fixing of the parts.

IPC 1-7

B21D 26/02

IPC 8 full level

B21D 26/02 (2011.01); **B21D 26/029** (2011.01); **B21D 26/031** (2011.01); **B21D 26/059** (2011.01)

CPC (source: EP US)

B21D 26/029 (2013.01 - EP US); **B21D 26/031** (2013.01 - EP US); **B21D 26/059** (2013.01 - EP US); **Y10T 29/49805** (2015.01 - EP US)

Cited by

CN111601670A; EP1222881A1; US11666959B2; WO2019174893A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

EP 1029611 A2 20000823; **EP 1029611 A3 20010523**; **EP 1029611 B1 20030514**; AT E240170 T1 20030515; DE 19907247 A1 20000831; DE 19907247 C2 20010823; DE 50002132 D1 20030618; US 6966209 B1 20051122

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EP 00103174 A 20000216; AT 00103174 T 20000216; DE 19907247 A 19990219; DE 50002132 T 20000216; US 50745300 A 20000222