

Title (en)

Apparatus for making articles by internal high pressure forming

Title (de)

Vorrichtung zur Herstellung von Formteilen durch Innenhochdruckumformung

Title (fr)

Dispositif de fabrication des pièces par formage à haute pression interne

Publication

EP 1502672 B1 20070919 (DE)

Application

EP 04016054 A 20040708

Priority

DE 10334660 A 20030730

Abstract (en)

[origin: US2005022576A1] A device for manufacturing formed parts by internal high pressure deformation. The device includes a housing composed of two tubular members which are placed one into the other and are connected by shrinkage, wherein the tool support unit is mounted in the concentric bore of the inner tubular member.

IPC 8 full level

B21D 22/12 (2006.01); **B21D 26/02** (2011.01); **B21D 26/025** (2011.01); **B21D 26/031** (2011.01); **B21D 26/039** (2011.01); **B21D 26/047** (2011.01)

CPC (source: EP US)

B21D 26/025 (2013.01 - EP US); **B21D 26/031** (2013.01 - EP US); **B21D 26/039** (2013.01 - EP US); **B21D 26/047** (2013.01 - EP US)

Cited by

EP2221126A1; EP1813363A1; US8739592B2; WO2010094383A3

Designated contracting state (EPC)

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

DOCDB simple family (publication)

US 2005022576 A1 20050203; **US 7080536 B2 20060725**; AT E373529 T1 20071015; DE 10334660 B3 20041104; DE 502004004998 D1 20071031; EP 1502672 A1 20050202; EP 1502672 B1 20070919; EP 1502672 B2 20120328

DOCDB simple family (application)

US 90240304 A 20040728; AT 04016054 T 20040708; DE 10334660 A 20030730; DE 502004004998 T 20040708; EP 04016054 A 20040708