

Title (en)

Apparatus for high pressure forming of a tubular member or blank

Title (de)

Vorrichtung zum hydraulischen Hochdruckumformen eines rohrförmigen Bauteils oder einer Platine

Title (fr)

Dispositif pour la production d'une pièce tubulaire ou d'une platine par déformation hydraulique à haute pression

Publication

EP 1106275 A3 20030108 (DE)

Application

EP 00124967 A 20001116

Priority

DE 19957888 A 19991201

Abstract (en)

[origin: EP1106275A2] The device has a forming tool (2) with upper and lower forming dies (4,3). The upper forming tool is coupled via a piston-cylinder-unit (9) containing a hydraulic fluid, to a press ram (12) of a mechanical press, so as to be relatively moveable to a limited degree. The cylinder chamber (19) of the unit is in fluid-connection with the inner chamber of the tubular part (BT). Alternatively, the cylinder chamber is similar connected to the forming chamber of the forming tool.

IPC 1-7

B21D 26/02

IPC 8 full level

B21B 37/00 (2006.01); **B21D 26/02** (2006.01); **B21D 26/033** (2011.01); **B21D 26/039** (2011.01); **B23P 23/00** (2006.01)

CPC (source: EP US)

B21D 26/033 (2013.01 - EP US); **B21D 26/039** (2013.01 - EP US); **B30B 1/32** (2013.01 - EP US); **B30B 1/34** (2013.01 - EP US); **Y10T 29/5185** (2015.01 - EP US); **Y10T 29/5199** (2015.01 - EP US)

Citation (search report)

- [A] DE 19705244 A1 19980813 - HUBER & BAUER GMBH [DE]
- [A] PATENT ABSTRACTS OF JAPAN vol. 004, no. 053 (M - 008) 19 April 1980 (1980-04-19)

Cited by

DE102016013989A1; DE102016013989B4; CN103272910A; ES2322926A1; DE202017106654U1

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

DOCDB simple family (publication)

EP 1106275 A2 20010613; **EP 1106275 A3 20030108**; **EP 1106275 B1 20040707**; AT E270594 T1 20040715; CZ 20004479 A3 20010912; CZ 295637 B6 20050914; DE 19957888 A1 20010607; DE 19957888 C2 20021114; DE 50007007 D1 20040812; US 2001005929 A1 20010705; US 6493913 B2 20021217

DOCDB simple family (application)

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