

Title (en)

DEVICE FOR FORMING AN END AREA OF A WORKPIECE

Title (de)

VORRICHTUNG ZUM UMFORMEN EINES WERKSTÜCK-ENDBEREICHES

Title (fr)

DISPOSITIF POUR LE FORMAGE D'UNE ZONE D'EXTREMITE D'UNE PIECE A USINER

Publication

EP 1311358 B1 20050420 (DE)

Application

EP 01971612 A 20010811

Priority

- DE 0103117 W 20010811
- DE 10040595 A 20000816
- DE 10040596 A 20000816

Abstract (en)

[origin: WO0213992A1] The invention relates to a device for forming an end area of a workpiece (2), especially for cold press-forming an end area of a pipe, comprising two force transmitting elements (7, 9) which are guided in a common housing (3). The device is characterised in that a first pressure chamber (26) is located between the two force transmission elements (7, 9) and in that a second pressure chamber (28) is allocated to the second force transmission element (9). When the first force transmission element (7) is in the bracing position, the second force transmission element (9) can be displaced in relation to the first force transmission element (7) in order to form the workpiece.

IPC 1-7

B21D 41/02

IPC 8 full level

B21D 41/00 (2006.01); **B21D 41/02** (2006.01); **B21J 5/08** (2006.01); **B21J 9/06** (2006.01); **B21J 9/12** (2006.01); **B21K 21/12** (2006.01)

CPC (source: EP KR US)

B21D 41/00 (2013.01 - EP KR US); **B21D 41/02** (2013.01 - EP US); **B21J 9/06** (2013.01 - EP US); **B21K 21/12** (2013.01 - EP US)

Cited by

DE102014103799B4; WO2015140280A1; DE102022121718A1; DE102014103799A1; US10449588B2; US11491526B2

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 0213992 A1 20020221; AT E293502 T1 20050515; AU 9160101 A 20020225; CN 1447724 A 20031008; CZ 20022818 A3 20030618; DE 50105967 D1 20050525; EP 1311358 A1 20030521; EP 1311358 B1 20050420; ES 2240518 T3 20051016; JP 2004505781 A 20040226; KR 20030004362 A 20030114; NO 20025877 D0 20021206; NO 20025877 L 20021206; NO 321883 B1 20060717; US 2003046969 A1 20030313; US 6708548 B2 20040323

DOCDB simple family (application)

DE 0103117 W 20010811; AT 01971612 T 20010811; AU 9160101 A 20010811; CN 01814235 A 20010811; CZ 20022818 A 20010811; DE 50105967 T 20010811; EP 01971612 A 20010811; ES 01971612 T 20010811; JP 2002519119 A 20010811; KR 20027013556 A 20021010; NO 20025877 A 20021206; US 24062002 A 20020930