

Title (en)
METHOD OF FORMING A CIRCULAR SHEET-METAL BLANK

Title (de)
VERFAHREN ZUM UMFORMEN EINER BLECHRONDE

Title (fr)
PROCEDE DE MISE EN FORME D'UNE TOLE RONDE

Publication
EP 1909985 B1 20140430 (DE)

Application
EP 06762175 A 20060624

Priority

- EP 2006006105 W 20060624
- DE 102005035229 A 20050725
- DE 102005035519 A 20050726

Abstract (en)
[origin: CA2614931A1] A method of forming a circular sheet-metal blank (1), which has a central hole (2) and rests on a tool (4) rotating about an axis (3) and has a thickness a_1 and a diameter d_1 which is less than the diameter of the tool (4) is distinguished by the fact that one or more pressure rollers are preferably plunged axially into the material of the circular sheet-metal blank and are moved radially outwards, so that the area of the sheet-metal blank (1) is enlarged radially in all directions, so that a preferably rotationally symmetrical part, in particular a further circular sheet-metal blank having a larger diameter d_2 and a thickness a_2 reduced at least in sections or throughout, is formed from the circular sheet-metal blank having the initial diameter d_1 and the thickness a_1 .

IPC 8 full level
B21D 22/14 (2006.01); **B21H 1/02** (2006.01); **B21K 1/28** (2006.01)

CPC (source: EP KR US)
B21D 22/14 (2013.01 - EP KR US); **B21H 1/02** (2013.01 - KR); **B21K 1/28** (2013.01 - EP KR US); **Y10T 29/49481** (2015.01 - EP US)

Citation (examination)

- DD 236824 A1 19860618 - KARL MARX STADT HAUSHALTGERAET [DD]
- DD 283088 A5 19901003 - KARL MARX STADT HAUSHALTGERAET [DD]
- DE 10033239 A1 20020124 - WF MASCHINENBAU BLECHFORMTECH [DE]

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 102005035519 A1 20070201; CA 2614931 A1 20070201; EP 1909985 A1 20080416; EP 1909985 B1 20140430; ES 2484800 T3 20140812; JP 2009502508 A 20090129; KR 20080026192 A 20080324; PL 1909985 T3 20141231; US 2009211323 A1 20090827; WO 2007012367 A1 20070201

DOCDB simple family (application)
DE 102005035519 A 20050726; CA 2614931 A 20060624; EP 06762175 A 20060624; EP 2006006105 W 20060624; ES 06762175 T 20060624; JP 2008523151 A 20060624; KR 20087001823 A 20080123; PL 06762175 T 20060624; US 98881406 A 20060624