

Title (en)

Method for making a transition part in a hollow profile

Title (de)

Verfahren zur Herstellung eines Übergangs an einem Hohlformteil

Title (fr)

Méthode de production d'une partie de transition dans un profilé creux

Publication

EP 1702695 A3 20070905 (DE)

Application

EP 06005275 A 20060315

Priority

DE 102005012475 A 20050316

Abstract (en)

[origin: EP1702695A2] Shaping of hollow profiled component (1) in a shaping region (U) by heat- and or warm shaping a wall thickening (V) is produced in successive steps and in the shaping region a transition region (W) is formed so that a first section (1a) is produced in the component with an increased diameter (sic) and a second section (1b) of smaller diameter (D2), and the shaping region (U) lies at least partially between these two sections and partially includes the transition (W).

IPC 8 full level

B21D 41/02 (2006.01); **B21C 37/16** (2006.01)

CPC (source: EP)

B21D 41/02 (2013.01); **B21J 5/08** (2013.01); **B21K 1/28** (2013.01); **B21K 21/02** (2013.01); **B21K 21/12** (2013.01)

Citation (search report)

- [X] GB 1183099 A 19700304 - MOSS GEAR COMPANY LTD
- [X] GB 2016964 A 19791003 - LAEIS WERKE AG
- [X] JP S63157733 A 19880630 - TANAKA PIPE KK
- [X] JP S62214821 A 19870921 - NHK SPRING CO LTD
- [A] JP 2002143958 A 20020521 - TUBE FORMING CO LTD

Cited by

DE102012110792A1; DE102018123316A1; CN110939794A; DE102012110792B4; US8047036B2; US9393606B2; US8939743B2; US8650921B2; US8875553B2; WO2021180608A1; WO2008080502A1; US8322175B2; US9987674B2; US8252210B2; US8713982B2; US8250892B2; DE102018123316B4; US11873944B2

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

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1702695 A2 20060920; EP 1702695 A3 20070905; EP 1702695 B1 20091223; AT E452716 T1 20100115; DE 102005012475 A1 20060921; DE 502006005707 D1 20100204

DOCDB simple family (application)

EP 06005275 A 20060315; AT 06005275 T 20060315; DE 102005012475 A 20050316; DE 502006005707 T 20060315