

Title (en)

Method for forming metal tubular hollow items

Title (de)

Verfahren zum Verformen von rohrförmigen Hohlkörpern aus Metall

Title (fr)

Procédé pour former des articles tubulaires creux métalliques

Publication

EP 1184101 B1 20060705 (DE)

Application

EP 01117698 A 20010725

Priority

DE 10042465 A 20000829

Abstract (en)

[origin: EP1184101A2] The hollow (10) is mechanically expanded and/or mechanically reduced in a first phase of treatment and is then annealed, repeating these two phases several times over, possibly annealing the body prior to the mechanical phase. Contraction or expansion should be performed at points showing the maximum change of section from original section after hydro-forming, and additional mechanical passes such as bending or forming should take place between the annealing and hydro-forming phases.

IPC 8 full level

B21D 26/033 (2011.01); **B21D 41/00** (2006.01); **B21D 41/02** (2006.01)

CPC (source: EP US)

B21D 26/033 (2013.01 - EP US); **B21D 41/02** (2013.01 - EP US)

Cited by

CN1313222C; DE102008046052B4; US7013697B2; DE102008046052A1; WO03004190A1; WO03101790A1; WO2012065739A1

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EP 1184101 A2 20020306; **EP 1184101 A3 20021211**; **EP 1184101 B1 20060705**; AT E332198 T1 20060715; DE 10042465 A1 20020328; DE 10042465 C2 20020801; DE 50110386 D1 20060817; DK 1184101 T3 20061023; ES 2267636 T3 20070316; US 2002073758 A1 20020620; US 6826943 B2 20041207

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