

Title (en)
METHOD FOR PRODUCING INTERNAL AND EXTERNAL TOOTHINGS ON THIN-WALLED, CYLINDRICAL HOLLOW PARTS

Title (de)
VERFAHREN ZUR ERZEUGUNG VON INNEN- UND AUSSENVERZÄHNUNGEN AN DÜNNWANDIGEN, ZYLINDRISCHEN HOHLTEILEN

Title (fr)
PROCEDE POUR REALISER DES DENTURES INTERIEURES ET EXTERIEURES SUR DES PIECES CREUSES CYLINDRIQUES A PAROI MINCE

Publication
EP 1915225 B1 20171101 (DE)

Application
EP 05758521 A 20050715

Priority
CH 2005000406 W 20050715

Abstract (en)
[origin: WO2007009267A1] The invention relates to a method for cold-form profiling cylindrical, thin-walled hollow parts (1), comprising profiles (4) which extend in an essentially parallel manner in relation to the longitudinal axis (A) of the hollow part (1). At least one profiling tool (5) engages in a strike-like hammering manner with the outside of the hollow part (1) in a radial manner in relation to the longitudinal axis (A) of the hollow part (1). The profiling tool (5) engages, respectively, in an essentially vertical and oscillating manner on the surface of the hollow part (1). Then, the profiling tool (5) is displaced in an axial manner in relation to the hollow part (1) at a constant radial adjusting depth until the desired profile length is obtained.

IPC 8 full level
B21K 1/30 (2006.01); **B21D 15/02** (2006.01); **B21D 53/28** (2006.01); **B21J 7/14** (2006.01); **B21J 15/12** (2006.01)

CPC (source: EP KR US)
B21D 15/02 (2013.01 - KR); **B21D 53/28** (2013.01 - EP KR US); **B21J 5/12** (2013.01 - EP US); **B21J 7/14** (2013.01 - EP KR US); **B21K 1/30** (2013.01 - EP KR US); **Y10T 29/49474** (2015.01 - EP US)

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)
WO 2007009267 A1 20070125; CA 2615220 A1 20070125; CA 2615220 C 20130108; CN 101198425 A 20080611; CN 101198425 B 20110608; EP 1915225 A1 20080430; EP 1915225 B1 20171101; ES 2676420 T3 20180719; JP 2009500179 A 20090108; JP 4873661 B2 20120208; KR 101292287 B1 20130801; KR 20080030071 A 20080403; US 2010126020 A1 20100527; US 8117884 B2 20120221

DOCDB simple family (application)
CH 2005000406 W 20050715; CA 2615220 A 20050715; CN 200580050082 A 20050715; EP 05758521 A 20050715; ES 05758521 T 20050715; JP 2008520686 A 20050715; KR 20087002571 A 20050715; US 99437605 A 20050715