

Title (en)

RING ROLLING FROM METAL BLANKS

Title (de)

RINGWALZEN AUS METALLROHLINGEN

Title (fr)

LAMINAGE DE COURONNES A PARTIR D EBAUCHES METALLIQUES

Publication

**EP 1909991 A1 20080416 (EN)**

Application

**EP 06765239 A 20060804**

Priority

- GB 2006002937 W 20060804
- GB 0516221 A 20050805

Abstract (en)

[origin: WO2007017655A1] A method of rolling a ring from a metal blank comprises mounting the blank (2) on a mandrel (4) between two forming rolls (6) located on opposite sides of the mandrel axis. A pair of lower growth control rolls (12) are located below and with their axes parallel to and on opposite sides of the mandrel axis (8), and a pair of upper growth control rolls (16) are arranged above and with their axes parallel and on opposite sides of the mandrel axis (8). The spacing between the pair of upper growth control rolls is different from that between the pair of lower growth control rolls. As the ring is rolled, both the forming rolls and the growth control rolls are engaged with it. In a modification of the method, the upper growth control rolls are replaced by a single roll (20) with its axis disposed directly over the mandrel axis.

IPC 8 full level

**B21H 1/12** (2006.01); **B21H 1/06** (2006.01)

CPC (source: EP US)

**B21H 1/12** (2013.01 - EP US)

Citation (search report)

See references of WO 2007017655A1

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 2007017655 A1 20070215**; AT E444130 T1 20091015; DE 602006009522 D1 20091112; EP 1909991 A1 20080416; EP 1909991 B1 20090930; ES 2331855 T3 20100118; GB 0516221 D0 20050914; GB 2430173 A 20070321; JP 2009502516 A 20090129; JP 4833288 B2 20111207; US 2009120152 A1 20090514

DOCDB simple family (application)

**GB 2006002937 W 20060804**; AT 06765239 T 20060804; DE 602006009522 T 20060804; EP 06765239 A 20060804; ES 06765239 T 20060804; GB 0516221 A 20050805; JP 2008524592 A 20060804; US 99793506 A 20060804