

Title (en)

METHOD AND APPARATUS FOR ROLLING A TUBE

Title (de)

VERFAHREN UND VORRICHTUNG ZUM WALZEN EINES ROHRS

Title (fr)

PROCEDE ET APPAREIL DE LAMINAGE D'UN TUBE

Publication

EP 1554064 A1 20050720 (EN)

Application

EP 03753626 A 20031021

Priority

- FI 0300777 W 20031021
- FI 20021885 A 20021022

Abstract (en)

[origin: WO2004037455A1] The invention relates to a method for manufacturing ovalshaped metal tubes, where an essentially round-shaped metal tube is rolled both in the sideways direction and in the vertical direction of the tube, so that the metal tube (11) is rolled at least in two steps (2,4), and that between said rolling steps (2,4), the metal tube is rolled at least once in a direction that is perpendicular to the rolling direction of the rolling steps (2,4). In addition, the invention relates to an apparatus for manufacturing ovalshaped metal tubes.

IPC 1-7

B21C 37/15

IPC 8 full level

B21B 13/00 (2006.01); **B21B 31/16** (2006.01); **B21C 37/15** (2006.01); **B21B 13/06** (2006.01); **B21B 15/00** (2006.01); **B21B 17/14** (2006.01); **B21B 31/18** (2006.01); **B21B 31/30** (2006.01)

CPC (source: EP KR)

B21B 13/005 (2013.01 - EP); **B21B 31/16** (2013.01 - EP); **B21C 37/15** (2013.01 - KR); **B21C 37/155** (2013.01 - EP); **B21B 13/06** (2013.01 - EP); **B21B 17/14** (2013.01 - EP); **B21B 31/18** (2013.01 - EP); **B21B 31/30** (2013.01 - EP); **B21B 2015/0071** (2013.01 - EP); **B21B 2203/22** (2013.01 - EP); **B21B 2273/22** (2013.01 - EP)

Citation (search report)

See references of WO 2004037455A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2004037455 A1 20040506; AU 2003271792 A1 20040513; CN 1329137 C 20070801; CN 1705527 A 20051207; EP 1554064 A1 20050720; FI 113632 B 20040531; FI 20021885 A0 20021022; KR 20050059237 A 20050617; MY 138990 A 20090828; TW 200418588 A 20041001

DOCDB simple family (application)

FI 0300777 W 20031021; AU 2003271792 A 20031021; CN 200380101449 A 20031021; EP 03753626 A 20031021; FI 20021885 A 20021022; KR 20057005856 A 20050404; MY PI20033979 A 20031020; TW 92128078 A 20031009