

Title (en)

Method and tool for folding a metal strip

Title (de)

Verfahren und Vorrichtung zum Abkanten eines Metallbandes

Title (fr)

Procédé et dispositif de pliage d'une bande métallique

Publication

**EP 1362649 A1 20031119 (EN)**

Application

**EP 03101099 A 20030422**

Priority

LU 90919 A 20020514

Abstract (en)

A method for folding a metal strip is proposed, the method comprising the steps of providing a metal strip (70) having a first surface and a second surface; providing the metal strip with a groove (62,62') in the first surface; folding the metal strip into a corner wherein the first surface forms a concave side of the corner and the second surface forms a convex side of the corner and the groove extends along the concave side of the corner; the metal strip being folded by means of at least one set of rollers. According to an important aspect of the invention, one of the rollers comprises a bead pressing the groove into said metal strip, the bead having a substantially rounded profile. The invention further concerns a folded tube having a groove with substantially rounded profile and a forming tool having a bead with substantially rounded profile. <IMAGE>

IPC 1-7

**B21D 11/20**

IPC 8 full level

**B21C 37/083** (2006.01); **B21C 37/15** (2006.01); **B21D 11/20** (2006.01); **F28D 1/03** (2006.01)

CPC (source: EP US)

**B21C 37/083** (2013.01 - EP US); **B21C 37/151** (2013.01 - EP US); **B21D 11/20** (2013.01 - EP US); **F28D 1/0391** (2013.01 - EP US)

Citation (search report)

- [XY] FR 2655889 A3 19910621 - REALISATIONS LUNETIERES STE NL [FR]
- [DY] US 6230533 B1 20010515 - LAVERAN JEAN-LOUIS [FR], et al
- [A] US 5890288 A 19990406 - RHODES EUGENE E [US], et al
- [A] US 5934365 A 19990810 - RHODES EUGENE E [US], et al
- [X] PATENT ABSTRACTS OF JAPAN vol. 006, no. 117 (M - 139) 30 June 1982 (1982-06-30)
- [X] PATENT ABSTRACTS OF JAPAN vol. 006, no. 033 (M - 114) 27 February 1982 (1982-02-27)

Cited by

EP1994352A4; US7665512B2; US8191258B2; US7921559B2; US8438728B2; US8726508B2; US8683690B2; WO2012037914A1

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)

**EP 1362649 A1 20031119**; LU 90919 B1 20031117; US 2004007040 A1 20040115

DOCDB simple family (application)

**EP 03101099 A 20030422**; LU 90919 A 20020514; US 42234403 A 20030424