

Title (en)

Process of manufacture of a conical, annular workpiece and workpiece obtained by said process

Title (de)

Verfahren zur Herstellung eines konischen, ringförmigen Werkstückes und damit hergestelltes Werkstück

Title (fr)

Procédé de fabrication d'une pièce annulaire tronconique et pièce obtenue par cprocédé

Publication

EP 0879661 A1 19981125 (FR)

Application

EP 98401180 A 19980515

Priority

FR 9706125 A 19970520

Abstract (en)

The procedure involves cutting a metal wire (1) to the required length (2). The wire is then bent into a ring (3), the two ends (4,5) are welded together and then the resulting workpiece is compressed by a stamping press to give the required shape. The pressing can be carried out in two stages, first giving a flat ring and then a truncated conical one. After welding the ends of the ring together the weld can be heat treated to homogenise the mechanical performance in the weld zone. The completed ring is subjected to degreasing, drying and oiling operations.

Abstract (fr)

L'invention concerne un procédé de fabrication d'une pièce annulaire tronconique comprenant les étapes suivantes : on découpe un tronçon (2) d'un fil métallique (1) de longueur prédefinie, on cintre ce tronçon (2) de fil pour former un tore (3), on soude les deux extrémités (4,5) de ce tore pour obtenir une ébauche annulaire (6), et on comprime ladite ébauche (6) au moyen d'un outil pour former ladite pièce. Application notamment aux jons d'embrayage. <IMAGE>

IPC 1-7

B21F 37/00

IPC 8 full level

B21D 53/16 (2006.01); **B21F 37/00** (2006.01)

CPC (source: EP)

B21D 53/16 (2013.01); **B21F 37/00** (2013.01)

Citation (search report)

- [A] DE 939746 C 19560301 - WUESTER HEINRICH DIPL-ING
- [A] US 1952266 A 19340327 - LELAND GEORGE H, et al
- [XA] PATENT ABSTRACTS OF JAPAN vol. 096, no. 009 30 September 1996 (1996-09-30)
- [X] PATENT ABSTRACTS OF JAPAN vol. 012, no. 416 (M - 759) 4 November 1988 (1988-11-04)
- [X] PATENT ABSTRACTS OF JAPAN vol. 011, no. 333 (M - 637) 30 October 1987 (1987-10-30)
- [A] PATENT ABSTRACTS OF JAPAN vol. 010, no. 242 (M - 509) 21 August 1986 (1986-08-21)
- [A] PATENT ABSTRACTS OF JAPAN vol. 014, no. 447 (M - 1029) 25 September 1990 (1990-09-25)

Cited by

EP1816370A3; DE102006014154A1; EP1837096A1; DE102006013238A1; WO0074612A1

Designated contracting state (EPC)

BE DE ES GB IT

DOCDB simple family (publication)

EP 0879661 A1 19981125; FR 2763523 A1 19981127; FR 2763523 B1 19990806

DOCDB simple family (application)

EP 98401180 A 19980515; FR 9706125 A 19970520