

## Title (en)

DRAWING DEVICE FOR FORMING A TUBE STARTING FROM A METAL STRIP

## Publication

**EP 0198779 A3 19871125 (FR)**

## Application

**EP 86430010 A 19860414**

## Priority

- CA 512049 A 19860620
- FR 8505914 A 19850417

## Abstract (en)

[origin: ES8703096A1] This invention relates to a die device for forming tube from a metal band, wherein the die comprises a long die block comprising, lengthwise and passing through it, a conduit comprising an inlet orifice of larger cross section and an outlet orifice of smaller cross section. The conduit converges from the inlet orifice towards the outlet orifice. At the level of the inlet orifice, the conduit is of a width slightly greater than that of said metal band. As the planar metal band passes through the conduit, it is formed by the interior surface, or generatrices, of the conduit into a tube of the desired configuration. Means are provided for creating tubes of differing cross-sectional shapes, such as a square, or a circular configuration. The die block is removably mounted on a carriage, which carriage is movable horizontally in front of a horizontal mandrel driven in rotation. The tube created by passage through the die block is wound around the mandrel. The mandrel is removable and each mandrel may be constructed of differing cross sections, such as circular or elliptical, depending upon the desired product. The carriage is mounted to pivot about a horizontal axis parallel to the mandrel and comprises means for positioning it in inclination, so that the tube issuing from the die block is tangential to said mandrel.

## IPC 1-7

**B21D 5/06**; **B21D 11/06**

## IPC 8 full level

**B21C 37/08** (2006.01); **B21D 5/06** (2006.01); **B21D 11/06** (2006.01)

## CPC (source: EP US)

**B21D 5/06** (2013.01 - EP US); **B21D 11/06** (2013.01 - EP US)

## Citation (search report)

- [X] US 3970233 A 19760720 - SUCHECKI JOSEF
- [Y] DE 597120 C 19340517 - KARL BREITENBACH, et al
- [Y] US 3225579 A 19651228 - CHAMBERS ISAAC M
- [X] US 2229149 A 19410121 - KARL WACKER
- [A] US 3415089 A 19681210 - FERCHLAND HAROLD W
- [A] FR 2507447 A1 19821217 - GORI & ZUCCHI SPA [IT]
- [A] US 3001569 A 19610926 - GRADT RICHARD A
- [A] DE 670145 C 19390112 - PFORZHEIM METALLSCHLAUCH

## Cited by

GB2225925B; GB2256576B

## Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

## DOCDB simple family (publication)

**EP 0198779 A2 19861022**; **EP 0198779 A3 19871125**; **EP 0198779 B1 19910626**; AU 5597086 A 19861106; AU 583369 B2 19890427; BR 8601713 A 19861216; CA 1299925 C 19920505; DE 3679931 D1 19910801; ES 553889 A0 19870216; ES 8703096 A1 19870216; FR 2580526 A1 19861024; JP S61262422 A 19861120; MX 170508 B 19930807; US 4783981 A 19881115

## DOCDB simple family (application)

**EP 86430010 A 19860414**; AU 5597086 A 19860409; BR 8601713 A 19860417; CA 512049 A 19860620; DE 3679931 T 19860414; ES 553889 A 19860411; FR 8505914 A 19850417; JP 8785686 A 19860416; MX 219886 A 19860417; US 85261886 A 19860416