

Title (en)

Apparatuses and methods for perforating tubing.

Title (de)

Verfahren und Vorrichtungen zum Lochen von Rohren.

Title (fr)

Procédés et dispositifs de perforation de tubes.

Publication

**EP 0013626 A2 19800723 (EN)**

Application

**EP 80300104 A 19800110**

Priority

US 275779 A 19790111

Abstract (en)

Corrugated tubing (13) is advanced along its axial path (A) by rotatably driven lead screw members (19) the screw threading (20) of which is in meshing engagement with the corrugations of the tubing (21), the lead screw members (19) being in pairs with the screw threading (20) of the lead screw members (19) of each pair being of opposite hand and the lead screw members (19) of each pair being rotated in opposite directions. The lead screw members (19) of each pair present outwardly directed cutters (36) which are synchronized substantially simultaneously to intersect the tubing (13) thereby, in perforating the tubing (13), to restrain the tubing (13) against rotation thereof about the axial path (A). A slide member (56) is preferably slidably and non-rotatably mounted by a splined connection (57) on each lead screw member (19) with the associated cutter or cutters (36) mounted on the slide member (56) for rotation therewith during operative rotation of the lead screw member (19), the slide member (56) being slidably moved along the lead screw member (19) by the advancing tubing (13) during intersection of tubing (13) by the associated cutter or cutters (36) with the slide member (56) and associated cutter or cutters (36) being returned to the initial position thereof between intersections of the tubing (13) by the cutter or cutters (36). There is also disclosed a method of producing the lead screw members (19) with the outwardly projecting cutters (36) mounted thereon.

IPC 1-7

**B29C 17/10**; **B21D 28/28**

IPC 8 full level

**B26D 3/06** (2006.01); **B21D 28/28** (2006.01); **B23C 3/28** (2006.01); **B26D 3/00** (2006.01); **B26F 1/00** (2006.01); **B26F 1/20** (2006.01)

CPC (source: EP)

**B26F 1/0076** (2013.01)

Cited by

EP0795383A1; CN108214615A; EP0980744A1; US6276558B1; WO9013400A1; WO9911451A1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LU NL SE

DOCDB simple family (publication)

**EP 0013626 A2 19800723**; **EP 0013626 A3 19800820**; **EP 0013626 B1 19830330**; AT E2881 T1 19830415; CA 1119090 A 19820302; DE 3062483 D1 19830505; JP S55112709 A 19800830; JP S6344488 B2 19880905

DOCDB simple family (application)

**EP 80300104 A 19800110**; AT 80300104 T 19800110; CA 343051 A 19800104; DE 3062483 T 19800110; JP 197980 A 19800111