



Europäisches Patentamt

(19) European Patent Office

Office européen des brevets

(11) Publication number:

0 013 626

A3

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: 80300104.9

(51) Int. Cl.³: B 29 C 17/10
B 21 D 28/28

(22) Date of filing: 10.01.80

(30) Priority: 11.01.79 US 2757

(43) Date of publication of application:
23.07.80 Bulletin 80/15

(88) Date of deferred publication of search report: 20.08.80

(84) Designated Contracting States:
AT BE CH DE FR GB IT LU NL SE

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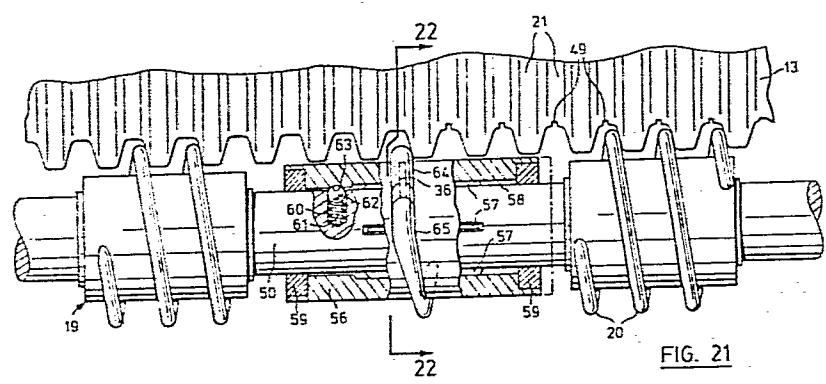
(54) Apparatuses and methods for perforating tubing.

(57) 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 the 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.

EP 0 013 626 A3

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DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl.)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	FR - A - 2 383 742 (LUPKE) * The whole document * -- US - A - 4 112 810 (DRETBELBIS) * Figures, abstract * --	1-6, 12, 13 1, 3, 4, 12	B 29 C 17/10 B 21 D 28/28
A	US - A - 3 990 827 (MAROSCHAK) * Figure 6; column 8, lines 56-62 * --	1	TECHNICAL FIELDS SEARCHED (Int. Cl.)
A	FR - A - 1 587 713 (DE MONCUIT) * Figures * --	1	B 29 C
A	FR - A - 2 169 761 (BNG) * Figures; claims * --	1	
A	FR - A - 2 332 114 (WAVIN) * Figures * -----		CATEGORY OF CITED DOCUMENTS
			X: particularly relevant A: technological background O: non-written disclosure P: intermediate document T: theory or principle underlying the invention E: conflicting application D: document cited in the application L: citation for other reasons &: member of the same patent family. corresponding document
 The present search report has been drawn up for all claims			
Place of search	Date of completion of the search	Examiner	
The Hague	16-04-1980	CORDENIER	