



(11) Publication number: 0 447 251 A3

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: 91302205.9

(51) Int. CI.5: **B21D 39/03**, B21C 37/15

(2) Date of filing: 14.03.91

30 Priority: 14.03.90 GB 9005703

(43) Date of publication of application: 18.09.91 Bulletin 91/38

Designated Contracting States:
 AT BE CH DE DK ES FR GB GR IT LI LU NL SE

88 Date of deferred publication of search report: 04.12.91 Bulletin 91/49

71) Applicant: HADLEY INDUSTRIES PLC Downing Street, Smethwick Warley, West Midlands B66 2PA (GB)

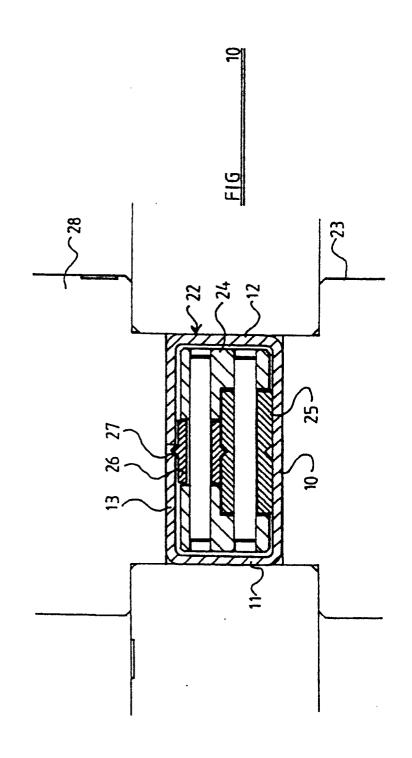
72 Inventor: Humpage Roy 9 Cloister Drive, off Manor Way Halesowen West Midlands B62 8 RA (GB)

(4) Representative: Lewis, Samuel Hewitt FORRESTER & BOEHMERT Widenmayerstrasse 4/I W-8000 München 22 (DE)

(54) Tube and method of forming same.

(57) A polygonal tube is produced from metal strip by forming rows of recesses (15) and projections (16) along opposite edges of the strip and then bending the strip until each projection is received in a corresponding recess to form the tube.

The projections are then squeezed between opposed surfaces (26,28) one inside and other outside the tube. The surface inside the tube forms a groove (27) in the tube wall at the inside of the tube, spreads each projection to take up any clearance between edges of the projections and boundaries of the corresponding recesses. The surface outside the tube allows the tube to remain flat.





EUROPEAN SEARCH REPORT

Application Number

EP 91 30 2205

Category	Citation of document with of relevant pr	indication, where appropriate, assages	Relevant to claim	CLASSIFICATION OF TH APPLICATION (Int. Cl.5)
X	US-A-4 383 354 (P. E.		1-3,5-9	B21039/03 B21C37/15
Υ			4,10	
Y	FR-A-2 533 472 (J. DAL * page 4, line 5 - page figures 1,2 *		4	
Y	PATENT ABSTRACTS OF JAI vol. 7, no. 207 (M-242 & JP-A-58 103 917 (NAK/ 1983 * the whole document *)(1352) September 13, 1983	10	
α, α	GB-A-1 403 823 (W. M. (* page 2, line 39 - pag 1-4 *	 CARROLL) ge 2, line 111; figures	1,2,5,6	
^	US-A-3 273 601 (W. J. I * claim 1; figures 2,6 		1.7	TECHNICAL FIELDS SEARCHED (Int. Cl.5) B21C B21D B23P
X : part	The present search report has been present from the Place of search the HAGUE CATEGORY OF CITED DOCUME icularly relevant if taken alone	Date of completion of the search 03 OCTOBER 1991 NTS T: theory or princi E: earlier patent do after the filling	ple underlying the ocument, but publicate	ished on, or
Y : part doc: A : teck	icularly relevant if combined with an iment of the same category nological background -written disclosure	other D: document cited L: document cited	in the application for other reasons	