

12 **EUROPEAN PATENT APPLICATION**

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DE FR GB

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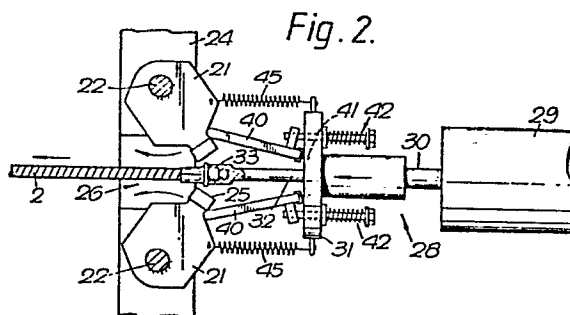
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54 **Improvements in or relating to swaging apparatus.**

57 The specification describes apparatus by which a sleeve-like fitting (1) may be swaged on to a core (2). The apparatus includes six tools (21), each pivoted about an axis (22). By swinging the tools (21), their forming faces (25) pass through a region of minimum separation. The fitting (1) and core (2) move with the swinging of the tools (21) to be gripped between the forming faces in the region of a minimum separation and so swaged.

A plate (31), moved by a piston and cylinder (29) effects simultaneous movement of the fitting (1) and the tools (21). Springs (45) tend to restore the tools (21) after the swaging operation.





European Patent
Office

EUROPEAN SEARCH REPORT

0099256

Application number

EP 83 30 3991

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. 3)
X	FR-A-1 526 283 (CUQ) * The whole document *	1-8, 11	B 21 J 9/06 B 21 J 7/18 B 21 K 25/00
X	FR-A-2 281 180 (AGENCE NATIONALE DE VALORISATION) * Page 2, lines 18-36; figures 1-6 *	1-6, 11	
X	US-A-3 859 833 (CUQ) * Column 2, line 30 - column 3, line 35; figures 1-4 *	1-6, 11	
X	GB-A- 339 800 (WITKOWITZER BERGBAU) * Page 2, lines 15-85; figures 1, 2 *	1-8, 11	
X	FR-A- 332 084 (BRIEDE) * The whole document *	1-8, 10 , 11	TECHNICAL FIELDS SEARCHED (Int. Cl. 3) B 21 J B 21 K
A	US-A-2 211 622 (HUNZIKER)		
A	US-A-4 157 025 (VYDRIN)		
A	US-A-4 100 785 (BISHOP)		
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 19-12-1985	Examiner THE K.H.
CATEGORY OF CITED DOCUMENTS			
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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl. ³)
A	US-A-3 396 570 (McCARDELL)		

A	US-A-2 979 085 (ROGGE)		

A	US-A-1 912 751 (BATCHELLER)		

A	US-A-1 625 340 (THOMAS)		

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