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(54) Electrical conductor connector

(57) The invention relates to a connector for at least one electrical conductor end in the form of an electrical cable. The connector comprises a body with at least one port for the reception of a conductor end, a collet which fits around the conductor and clamping means which in one embodiment are threaded and engage with a threaded portion at the port opening. With the collet and conductor placed in the port, rotation of the clamping

means moves the collet inwardly of the port, the internal walls of which are frustoconically shaped. The collet moves into the port until a location at which further movement of the clamping means causes at least a portion of the collet to move inwardly and exert a gripping force on the conductor and, in conjunction with the clamping means securing the conductor in the connector.

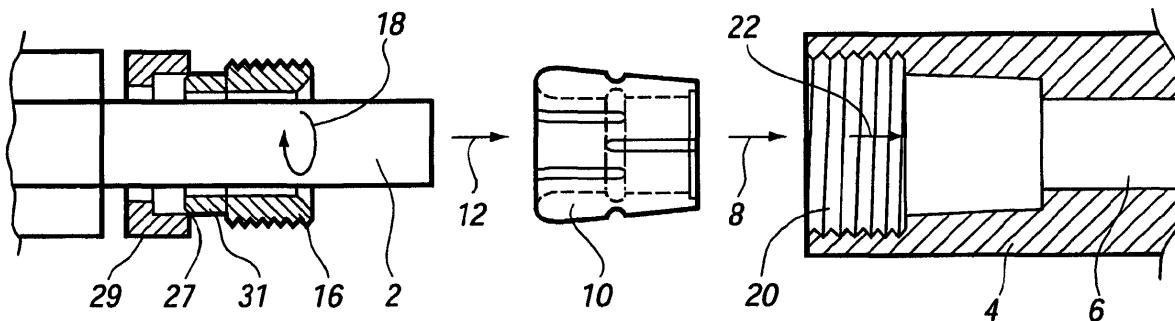


FIG. 2



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EUROPEAN SEARCH REPORT

Application Number
EP 02 25 1330

DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.7)																												
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim																													
X	US 2 341 970 A (WOREL GLEN J) 15 February 1944 (1944-02-15)	1,7,9, 15,16	H01R4/50																												
Y	* page 1, right-hand column, line 21 - line 52; figures 2,6 *	2-6,8, 10-14, 17,18																													

X	US 5 573 423 A (LIN KUANG-TS AN ET AL) 12 November 1996 (1996-11-12)	1,7,15, 16																													
A	* column 2, line 3 - line 49; figures 1-3 *	2-6, 8-14,17, 18																													

Y	US 2 549 665 A (CONRAD JOHN F) 17 April 1951 (1951-04-17)	2,4,10																													
	* column 1, line 12 - line 18; figure 2 *																														

Y	US 5 092 797 A (COLE RANDY T ET AL) 3 March 1992 (1992-03-03)	11-14, 17,18																													
	* abstract; figure 3 *																														

Y	FR 939 596 A (RENAUD HENRI; RTHIBAUT GASTON) 18 November 1948 (1948-11-18)	3,5,6,8	TECHNICAL FIELDS SEARCHED (Int.Cl.7)																												
	* page 1, line 39 - line 56.*																														
	* page 2, line 10 - line 24; figures 1-5 *																														

The present search report has been drawn up for all claims			H01R																												
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ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.

EP 02 25 1330

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06-08-2003

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2341970	A	15-02-1944	NONE	
US 5573423	A	12-11-1996	NONE	
US 2549665	A	17-04-1951	NONE	
US 5092797	A	03-03-1992	CA 2070621 A1	09-01-1993
FR 939596	A	18-11-1948	NONE	