

(12) **EUROPEAN PATENT APPLICATION**

(21) Application number: **83103718.9**

(51) Int. Cl.<sup>4</sup>: **H 01 T 13/04**  
**H 01 R 4/18**

(22) Date of filing: **18.04.83**

(30) Priority: **30.04.82 US 373376**

(43) Date of publication of application:  
**09.11.83 Bulletin 83/45**

(88) Date of deferred publication of search report: **14.01.87**

(84) Designated Contracting States:  
**DE FR GB IT**

(71) Applicant: **ALLIED CORPORATION**  
**Columbia Road and Park Avenue P.O. Box 2245R (Law**  
**Dept.)**  
**Morristown New Jersey 07960(US)**

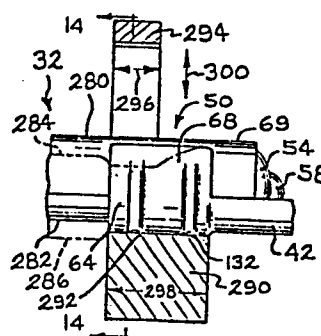
(72) Inventor: **Powers, Charles William**  
**1004 South 7th Street**  
**St. Clair Michigan 48060(US)**

(72) Inventor: **Plouffe, Emile Percy**  
**3419 Timberline Drive**  
**Port Huron Michigan 48060(US)**

(74) Representative: **Bryant, Frank**  
**L & M Limited Norman Road**  
**Altrincham Cheshire WA 14 4ES(GB)**

(54) **Ignition wire terminal.**

(57) A one piece ignition wire terminal which does not require a separate spring to provide dependable retaining force to a terminal, and which may be used either as a straight ignition wire terminal or a bent ignition wire terminal, is crimped to an ignition cable over only a portion of its crimping area, to increase the retention of the terminal to the cable. The terminal includes a barrel portion with an integral spring formed by cutting a generally U-shaped slot in the material of the terminal, forming a spring tongue portion, which is provided with a radial projection. The radial projection may be directed inwardly, for use with a conventional spark plug-type terminal, or outwardly, for use with a conventional distributor socket. The ignition terminal is made usable either as a straight terminal or a bent terminal by providing it with three deformed sections in an intermediate channel section, including inward facing deformations at the edges of the channel, and a third inward deformation of the bottom of the channel. The resulting intermediate section is not significantly weakened, and may be made into a bent section by bending in the direction that places the third deformation at the apex of an acute angle. The crimpable area of the terminal may be crimped to an ignition cable over only approximately one-half of its length, the uncrimped length forming a diverging funnel portion adjacent the end of the ignition cable.



—FIG. 13



European Patent  
Office

# EUROPEAN SEARCH REPORT

0093300

Application number

EP 83 10 3718

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)
Y	US-A-1 970 767 (RABEZZANA) * Page 1, lines 33-104 *	1, 4	H 01 T 13/04 H 01 R 4/18
Y	--- FR-A-1 487 997 (AMP) * Page 1, right-hand column, line 21 - page 2, right-hand column, line 5 *	1	
A	--- US-A-3 243 763 (ELLIOTT) * Figure 9 *	2	
A	--- DE-A-2 708 753 (KOSTAL) * Figure 3 *	3	
A	--- DE-A-2 615 820 (KOSTAL) * Figures 5-7 *	5	
			TECHNICAL FIELDS SEARCHED (Int Cl 3)  H 01 T 13/00 H 01 R 4/00 H 01 R 11/00 H 01 R 13/00 H 01 R 43/00
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 14-10-1986	Examiner BERTIN M.H.J.
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document			