

(12) **EUROPEAN PATENT APPLICATION**

(21) Application number: **86302484.0**

(51) Int. Cl.³: **H 01 R 4/24**
H 01 R 4/52, H 01 R 9/22

(22) Date of filing: **03.04.86**

(30) Priority: **03.04.85 GB 8508682**

(71) Applicant: **W. Lucy & Company Limited**
Walton Well Road
Oxford Oxfordshire, OX2 6EE(GB)

(43) Date of publication of application:
08.10.86 Bulletin 86/41

(72) Inventor: **Juniper, Anthony John**
18 Walton Well Road
Oxford Oxfordshire OX2 6E(GB)

(88) Date of deferred publication of search report: **14.12.88**

(72) Inventor: **Morris, Peter**
48 Begbroke Crescent
Begbroke Oxfordshire(GB)

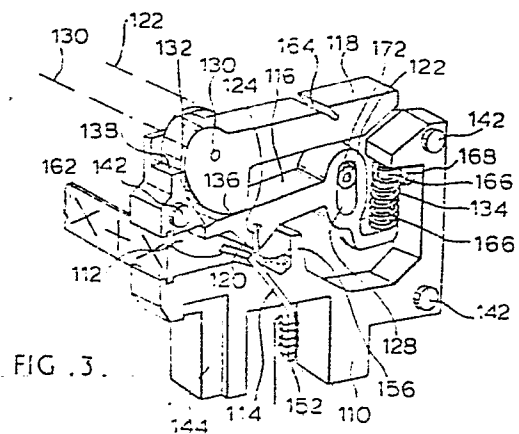
(84) Designated Contracting States:
AT BE DE FR

(72) Inventor: **Ingledeu, David Richard**
89 Courtington Lane
Bloxham Oxfordshire OX15 4HS(GB)

(74) Representative: **Lyndon-Stanford, Edward Willoughby**
Brooke et al,
MARKS & CLERK 57/60 Lincoln's Inn Fields
London WC2A 3LS(GB)

(54) **Electrical connector.**

(57) The connector comprises a housing (110) having an in-feed opening (112) for an electrically-insulated wire. The housing (110) accommodates a fixed contact (114), a pivotally mounted pressure lever (116) acted upon by a compression spring (134) and a pivotally mounted operating member (118) having a cam surface (132) engageable with the pressure lever. The fixed contact (114) and the pressure lever (116) both have co-operating, longitudinally-offset, insulation-penetrating parts (120 and 126). Pivotable movement of the operating member (118) from a first to a second position moves the pressure lever (116) against the action of the spring (134) into a position (as shown in the Figure) in which the penetrating parts (120 and 126) cut into the insulation of a wire extending through the in-feed opening (112) and grip the wire in a manner which electrically connects the conductor of the wire to the fixed contact (114). Preferably the pressure lever (116) is mounted so that it can automatically compensate for different wire conductor diameters.





European Patent
Office

EUROPEAN SEARCH REPORT

0196925

Application Number

EP 86 30 2484

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.4)
X,A	US-A-1 977 677 (WESTERN ELECTRIC CO., INC.) * Page 1, lines 10-32,86-104; page 2, lines 13-30; figure 2 *	1,3-5,6 ,7,9,10 ,12	H 01 R 4/24 H 01 R 4/52 H 01 R 9/22
A	US-A-3 976 351 (MARK PRODUCTS, INC.) * Abstract; column 1, lines 4-6; column 2, line 56 - column 3, line 9; figure 2 *	1,3-5	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			H 01 R
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 09-10-1988	Examiner HORAK A.L.
<p>CATEGORY OF CITED DOCUMENTS</p> <p>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</p> <p>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</p> <p>..... & : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03.82 (F0401)