

12

EUROPEAN PATENT APPLICATION

21 Application number: **88311597.4**

51 Int. Cl.⁵: **H01H 1/06, H01H 13/10,
H01H 50/54**

22 Date of filing: **07.12.88**

30 Priority: **24.12.87 US 138010**

43 Date of publication of application:
05.07.89 Bulletin 89/27

84 Designated Contracting States:
DE FR GB

88 Date of deferred publication of the search report:
25.07.90 Bulletin 90/30

71 Applicant: **TRW INC.**
1900 Richmond Road
Lyndhurst Ohio 44124(US)

72 Inventor: **Smolley, Robert**
56 Limetree Lane
Porteuguese Bend California 90274(US)

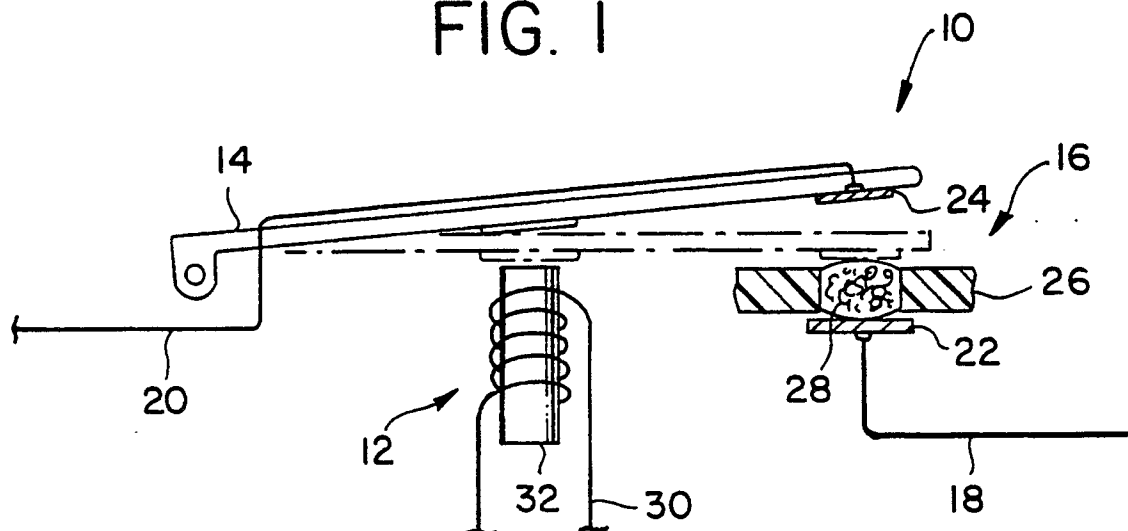
74 Representative: **Allden, Thomas Stanley et al**
A.A. THORNTON & CO. Northumberland
House 303-306 High Holborn
London WC1V 7LE(GB)

54 **Improved electrical switch.**

57 An improved electrical switch providing a low electrical-resistance connection and a simple, inherent wiping action of the contact surfaces. The improved electrical switch includes a pair of electrical contacts, an insulating board disposed between the electrical contacts, and a switch mechanism. The insulating board has a wadded-wire connector element disposed in an opening in the insulating board

at a position corresponding to the electrical contacts. The wadded-wire connector element makes electrical contact at multiple points when compressed against a contact surface by the switch mechanism, thus wiping the contact surfaces free of any film or surface contamination and providing a low electrical-resistance connection.

FIG. 1



EP 0 323 057 A3



EP 88 31 1597

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)
P,X	FR-A-2615320 (SCHOELLER & CO) * page 4, lines 2 - 5 * * page 4, lines 32 - 33; figure 1 * * page 3, lines 26 - 28 * ---	1 5	H01H1/06 H01H13/10 H01H50/54
X	US-A-4044322 (S.J.BROWN ET AL.) * column 3, lines 1 - 10; figures 1, 4 * ---	1, 2, 4	
A	FR-A-1572902 (THE NATIONAL CASH REGISTER COMPANY) * page 1, lines 1 - 18; figures 1-8 * ---	1-3	
Y	US-A-3613036 (J.O.KURTZ) * column 2, lines 54 - 75; figure 1 * ---	7, 8, 10	
Y	DE-A-2310906 (ESSEX INTERNATIONAL) * column 4, lines 15 - 50; figures 1-5 * ---	7, 8, 10	
A	US-A-3879586 (G.A.DUROCHER ET AL.) * column 3, lines 17 - 62; figures 3, 5, 10 * -----	12-16	
			TECHNICAL FIELDS SEARCHED (Int. Cl.4)
			H01H
The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 04 MAY 1990	Examiner DIOU, 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			