(11) **EP 1 017 073 A3**

(12)

EUROPEAN PATENT APPLICATION

(88) Date of publication A3: **25.04.2001 Bulletin 2001/17**

(51) Int Cl.7: **H01H 9/34**

(43) Date of publication A2: **05.07.2000 Bulletin 2000/27**

(21) Application number: 99203932.1

(22) Date of filing: 25.11.1999

(84) Designated Contracting States:
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU
MC NL PT SE
Designated Extension States:

AL LT LV MK RO SI

(30) Priority: 02.12.1998 IT MI982619

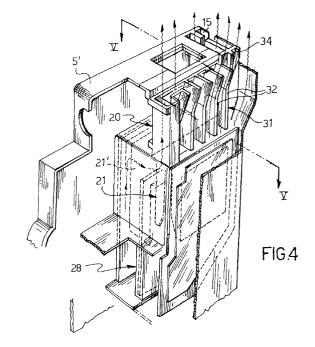
(71) Applicant: BTICINO S.p.A. 20154 Milano (IT)

(72) Inventor: Fabrizi, Fabrizio 24100 Bergamo (IT)

(74) Representative: Pezzoli, Ennio et al Jacobacci & Perani S.p.A. Via Senato, 8 20121 Milano (IT)

(54) Switch with two pairs of contacts and two-cell arc extinguishing chamber

(57)The arc extinguishing unit of the switch comprises a body of insulating material (20) and two packs (21, 21') of superposed laminae (23, 23') insulated from one another. Each pack of laminae has an arc splitting side and a gas discharge side, and is arranged beside the other with the interposition of a substantially flat portion (28) of the body. In order to obtain compactness, efficiency of extinguishing of the arc, and discharge of the gases without dispersions within the switch, means (31-34) are provided for channelling the gases formed, partly inside the body (20) and partly by conjugate surfaces of the body and of at least one of the shells (5, 5') which together constitute the housing of the switch. Said channelling means extend from a region adjacent to the discharge side of each of the two packs of laminae as far as apertures (15) provided on one side of the housing.





EUROPEAN SEARCH REPORT

Application Number

EP 99 20 3932

Category	Citation of document with indication	i, where appropriate,	Relevant	CLASSIFICATION OF THE
Jalegory	of relevant passages		to claim	APPLICATION (int.CI.7)
A	FR 2 511 188 A (TELEMECA 11 February 1983 (1983-0 * claims 1-3; figures 1-)2-11)	1	H01H9/34
A	US 3 448 231 A (HEFT ELD 3 June 1969 (1969-06-03) * figures 1,7 *		1	
A	DE 11 04 019 B (VOIGT &H 6 April 1961 (1961-04-06 * column 3, last paragraparagraph 2; figures *	5)	1	
A	EP 0 306 382 A (MERLIN G 8 March 1989 (1989-03-08			
				TECHNICAL FIELDS SEARCHED (Int.Cl.7)
				H01H
	The present search report has been dra	awn up for all claims		
	Place of search THE HAGUE	Date of completion of the search 1 March 2001	Jan	ssens De Vroom, P
X : part Y : part docu	ATEGORY OF CITED DOCUMENTS icularly relevant if taken alone icularly relevant if combined with another ument of the same category nological background	T : theory or princip E : earlier patent dc after the filling da D : document cited L : document cited	le underlying the cument, but publi tte in the application for other reasons	invention
Q: non	-written disclosure mediate document	& : member of the s document	ame patent famil	y, corresponding

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 99 20 3932

This annex lists the patent family members relating to the patent documents cited in the above–mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

01-03-2001

NONE DE 1640265 A 13-08-1970 ES 346862 A 01-01-1969 FR 1544434 A GB 1196800 A 01-07-1970 NONE FR 2619955 A 03-03-1989
ES 346862 A 01-01-1969 FR 1544434 A GB 1196800 A 01-07-1979
FR 2619955 A 03-03-198
DE 3872800 A 20-08-199 DE 3872800 T 25-02-199 JP 1157025 A 20-06-198 US 4877929 A 31-10-198
DE 3872800 T 25-02- JP 1157025 A 20-06-