



Europäisches Patentamt  
European Patent Office  
Office européen des brevets



(11) **EP 1 431 998 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
**01.02.2006 Bulletin 2006/05**

(51) Int Cl.:  
**H01H 21/36 (2006.01)**

(43) Date of publication A2:  
**23.06.2004 Bulletin 2004/26**

(21) Application number: **03257590.4**

(22) Date of filing: **02.12.2003**

(84) Designated Contracting States:  
**AT BE BG CH CY CZ DE DK EE ES FI FR GB GR  
HU IE IT LI LU MC NL PT RO SE SI SK TR**  
Designated Extension States:  
**AL LT LV MK**

(72) Inventor: **Zha, Xiahong**  
**Wuzhong District**  
**Suzhou 215106 (CN)**

(30) Priority: **16.12.2002 CN 02287611**

(74) Representative: **Stuttard, Garry Philip**  
**Urquhart-Dykes & Lord LLP**  
**Tower North Central**  
**Merrion Way**  
**Leeds LS2 8PA (GB)**

(71) Applicant: **Positec Power Tools (Suzhou) Co., Ltd**  
**Suzhou 215006 (CN)**

(54) **Safety switch device**

(57) The present invention relates to a safety switch device comprising a housing and a handle pivotally connected to the housing via a pivot. An electric switch is accommodated within the housing. A safety press-button is slidably provided on the housing. A pressing member is fixedly mounted on a slideable rod in the housing. An internal portion of the handle presses against the slideable rod. The slideable rod lies in a guiding groove on the in-

terior of the housing. A clearance between the slideable rod in the guiding groove and the edge of the guiding groove is sufficient to advantageously permit the slideable rod to swing in the guiding groove when the safety button is not depressed. Irrespective of whether the safety press-button is depressed or not, the handle can always be rotated about the pivot so that the risk of damage by accidental operation of the handle or safety press button is eliminated.

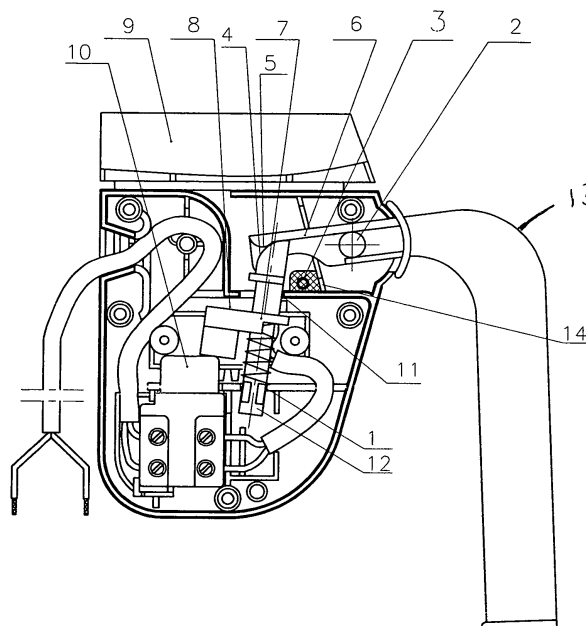


FIG 1

EP 1 431 998 A3



European Patent  
Office

## EUROPEAN SEARCH REPORT

Application Number  
EP 03 25 7590

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
A	DE 85 11 477 U1 (TRIPUS-KUNSTSTOFFTEILE GMBH, 8870 GUENZBURG, DE) 6 March 1986 (1986-03-06) * page 9 - page 15, line 21 * -----	1,6	H01H21/36
A	DE 30 06 405 A1 (GARDENA KRESS+KASTNER GMBH) 27 August 1981 (1981-08-27) * figure 1 * * page 9, paragraph 4 - page 11, paragraph 3 * -----	1,6	
A	EP 0 825 627 A (ELECTROLUX OUTDOOR PRODUCTS LIMITED) 25 February 1998 (1998-02-25) * abstract; figures * -----	1,6	
A	US 5 806 374 A (MIZUTANI ET AL) 15 September 1998 (1998-09-15) * the whole document * -----	1,6	
A	DE 84 14 594 U1 (SCHULTE-ELEKTROTECHNIK GMBH & CO KG, 5880 LUEDENSCHIED, DE) 10 October 1985 (1985-10-10) * figures 4,5 * * page 5, line 6 - line 22 * -----	1,6	TECHNICAL FIELDS SEARCHED (IPC) H01H
A	DE 39 26 098 A1 (GARDENA KRESS + KASTNER GMBH, 7900 ULM, DE; BRILL PRODUKTIONS GMBH, 58) 14 February 1991 (1991-02-14) * the whole document * -----	1,6	
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 5 December 2005	Examiner Desmet, W
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			

1  
EPO FORM 1503 03.82 (P04C01)

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

EP 03 25 7590

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.

05-12-2005

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 8511477	U1	06-03-1986	NONE
DE 3006405	A1	27-08-1981	NONE
EP 0825627	A	25-02-1998	AT 221249 T 15-08-2002 DE 69714157 D1 29-08-2002 DE 69714157 T2 13-03-2003 GB 2316458 A 25-02-1998
US 5806374	A	15-09-1998	DE 19711899 A1 30-10-1997 JP 3329654 B2 30-09-2002 JP 9252626 A 30-09-1997
DE 8414594	U1	10-10-1985	NONE
DE 3926098	A1	14-02-1991	NONE