



Europäisches Patentamt  
European Patent Office  
Office européen des brevets

⑪ Publication number:

0 283 052  
A3

12

## **EUROPEAN PATENT APPLICATION**

② Application number: 88104500.9

⑤1 Int. Cl.5: H01H 9/16, H01H 13/02

② Date of filing: 21.03.88

③ Priority: 20.03.87 JP 67185/87

(43) Date of publication of application:  
**21.09.88 Bulletin 88/38**

84 Designated Contracting States:  
**AT BE CH DE ES FR GB GR IT LI LU NL SE**

88 Date of deferred publication of the search report:  
**13.06.90 Bulletin 90/24**

(71) Applicant: **OMRON TATEISI ELECTRONICS CO.**  
**10, Tsuchido-cho Hanazono Ukyo-ku**  
**Kyoto 616(JP)**

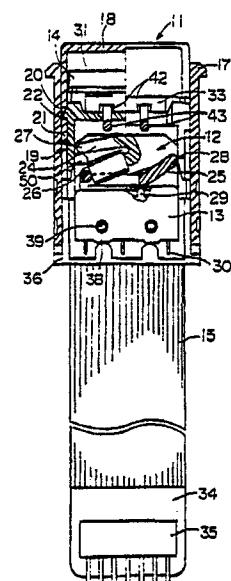
72 Inventor: **Shinohara Kenji c/oOmron Tateisi Electronics Co**  
**Patent Center 20, Igadera Shimo-Kaiinji Nagaokakyo-City Kyoto 617(JP)**  
Inventor: **Niwa, Takashi c/oOmron Tateisi Electronics Co**  
**Patent Center 20, Igadera Shimo-Kaiinji Nagaokakyo-City Kyoto 617(JP)**

74 Representative: **WILHELM, KILIAN & PARTNER Patentanwälte**  
**Eduard-Schmid-Strasse 2**  
**D-8000 München 90(DE)**

**54 Illuminated push-button switch.**

57) Herein disclosed is an illuminated push-button switch structure in which, when the push button is pushed, the push-button guide member united to the button is depressed while being supported to slide by the switch base. Then, the switch lever of the switch mechanism associated with the push-button guide member is abruptly turned back with a predetermined depression stroke to afford a switching feel. This turn prevents further movement of the push button in a predetermined depression direction in order to eliminate any undesired vibration of the push button. Even if the push button is obliquely pushed, it is always prevented from being inclined to provide the stable switching operation at all times.

FIG. 5



EP 0283052 A3



EP 88 10 4500

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 )
Y	US-A-4354078 (SUN DENGYOSHA COMPANY) * column 2, line 22 - column 3, line 5; figures 5, 6 *	1, 2	H01H9/16 H01H13/02
Y	FR-A-2298871 (ILLINOIS TOOL WORKS INC.) * figure 4 *	1, 2	
A	US-A-2924692 (MINNEAPOLIS-HONEYWELL REGULATOR COMPANY) * figure 2 *	3	
-----			
TECHNICAL FIELDS SEARCHED (Int. Cl.4 )			
H01H			
The present search report has been drawn up for all claims			
2	Place of search THE HAGUE	Date of completion of the search 03 APRIL 1990	Examiner JANSSENS DE VROOM P
CATEGORY OF CITED DOCUMENTS		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	
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			