



Europäisches Patentamt
European Patent Office
Office européen des brevets



(11) Publication number : **0 454 641 A1**

(12)

EUROPEAN PATENT APPLICATION

(21) Application number : **91850080.2**

(51) Int. Cl.⁵ : **F21V 21/08**

(22) Date of filing : **28.03.91**

(30) Priority : **06.04.90 SE 9001285**

(43) Date of publication of application :
30.10.91 Bulletin 91/44

(84) Designated Contracting States :
AT BE CH DE DK ES FR GB GR IT LI LU NL

(71) Applicant : **ARTILUX AB**
Box 158
S-334 00 Anderstorp (SE)

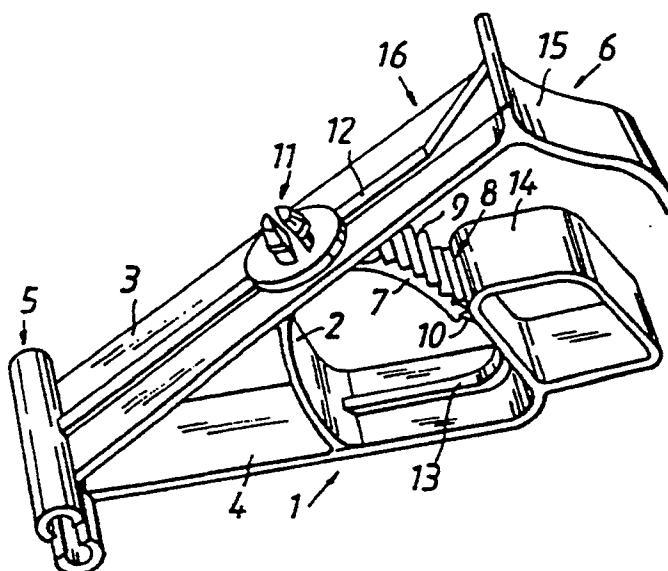
(72) Inventor : **Hurtig, Torbjörn**
Apelgatan 5
S-332 00 Gislaved (SE)

(74) Representative : **Bjerkstam, Peter**
Radjursvägen 11
S-131 42 Nacka (SE)

(54) **Arrangement of a clamping holder, primarily intended for retaining a light fitting.**

(57) The invention relates to an arrangement of a clamping holder, preferably intended for retaining a light fitting, e.g. at the edge of a shelf or table. The holder (1) has two legs (3,4) kept together by a connecting portion (2) and clampable to a shelf or the like by means of a gripping portion (5). Between the rear free end (16) of the holder (1) and the connecting portion (2) one leg (3) is provided with a tongue formation (7) projecting towards the other leg (4) and which is in latchable coaction with a latch means (8) on the other leg (4) for enabling latching of the rear end (6) of the legs (3,4) with the legs in a position where they are urged apart for achieving an increased clamping effect in the gripping portion (5).

Fig. 1



EP 0 454 641 A1

The present invention relates to an arrangement of a clamping holder, intended for retaining a light fitting, e.g. at the edge of a table or shelf, where the holder includes two legs which are kept together by a flexible connecting portion and which have their free ends forming a gripping portion for clamping to a shelf edge or the like, the legs being openable against the spring bias of the connecting portion by urging together the outer free ends of the legs, these ends being formed with a finger grip.

Clamps or clips of this type, which are used for attaching a light fitting to a table or shelf edge, can come loose if sufficient clamping force can not be maintained. If the fitting then falls to the floor it can be broken, and if it falls onto a chair or the bedclothes on a bed a fire can be caused.

The object of the present invention is to provide an arrangement of a clamping holder of the kind mentioned in the introduction, where the disadvantages mentioned above have been eliminated. The features characterizing the invention are disclosed in the accompanying claims.

Due to the invention there has now been provided a clamping holder that does not loosen after being attached to a shelf edge or the like, but remains securely in place, even after the resilience in the material it is made from begins to deteriorate.

The invention will now be described in more detail below and with reference to the accompanying drawing, where

Fig. 1 is a side view of a preferred embodiment of a clamping holder in accordance with the present invention, and

Fig. 2 is a view from above of the holder shown in Fig. 1.

A preferred embodiment example of a clamping holder 1 in accordance with the present invention is illustrated on the drawing. The holder 1, preferably intended for attaching a light fitting to a table or shelf edge, includes two legs 3 and 4, which are kept together by a flexible connecting portion 2. At one free end the legs form a gripping portion 5 for clamping the holder 1 to such as a table edge. The gripping portion 5 is openable against the spring bias of the connecting portion 2, by urging together the other free ends of the legs 3,4, these ends forming a rear end 6 with a finger grip.

In the region from the attachment of the connecting portion 2 to the legs 3,4 and to the free rear end 6 thereof, one leg 3 is provided with a tongue formation 7, which projects out in a direction towards the other leg 4. The tongue 7 is adapted for coaction with, and to be optionally locked to, a latch means 8 formed on the other leg 4, such that, after fastening the holder 1 to a shelf or the like with the gripping portion 5, the rear end 6 of the legs 3,4 may be further urged apart and fixed in this position with the aid of the tongue 7 and latch means 8, thus obtaining an increased clamping

effect at the gripping portion 5.

The tongue 7 is provided with a plurality of transverse latching teeth 9 which, when the legs 3,4 are urged apart at the rear end 6, are automatically latchable in complementarily formed teeth 10 on the latch means 8. When the clamping holder 1 is to be removed from the shelf or the like and the clamping effect released in the gripping portion 5, all that is required is to urge the tongue 7 forwards and towards the gripping portion 5 in the illustrated example.

In an alternative embodiment, the latch means 8 may solely consist a suitably formed opening in the other leg 4, through which an extended version of the tongue 7 can be moved and latched in a desired position by the latching teeth 9.

As will be seen from the drawing, the upper leg 3 may be provided with a snap-on means 11 for a light fitting. In addition, the legs 3,4 may be reinforced by stiffening flanges 12,13. The lower leg 4 may include a loop 14 for a finger, and the leg 3 may be provided with a force application member 15, e.g. for the thumb or fingers.

Claims

1. Arrangement of a clamping holder, preferably intended for retaining a light fitting, e.g. at the end of a table or shelf, said holder (1) including two legs (3,4) kept together by a fixable connecting portion (2), said legs having their one free end forming a gripping portion for clamping to a shelf or the like, said legs being openable against the spring bias of the connecting portion (2) by urging together said legs at their other free end (6), which is formed with a finger grip, **characterized in that** in the region from the attachment of the connecting portion (2) to the legs (3,4) and to the free rear end (6) thereof, one leg (3) is provided with at least one tongue formation (7) projecting towards the other leg (4), said tongue formation (7) being adapted for coaction with, and to be optionally locked to, a latch means (8) formed on the other leg (4) for enabling latching the legs (3,4) in the region of the rear end (6) of the clamping holder (1) in a position where the legs are urged apart, as well as for achieving an increased clamping effect at the gripping portion (5) after it has been fastened to a shelf or the like.
2. Arrangement as claimed in claim 1, **characterized in that** the tongue formation (7) on the leg (3) is provided with a plurality of transverse latching teeth (9) for latching coaction with the latch means (8) on the other leg (4), said latching being releasable by moving the tongue formation (7) in a direction towards the forward or rear free end of the holder (1).

3. Arrangement as claimed in claim 1, characterized in that the latch means (8) comprises a portion projecting out a short distance from the other leg (4) towards the tongue formation (7) and which has at least one latching tooth (10) for latching coaction with the tongue formation (7). 5

4. Arrangement as claimed in claim 1, characterized in that the latch means (8) comprises the edge portion of an opening in the other leg (4), through which the tongue formation (7) is movable and which is formed such that said tongue formation is latching thereto in a desired position. 10

15

20

25

30

35

40

45

50

55

Fig. 1

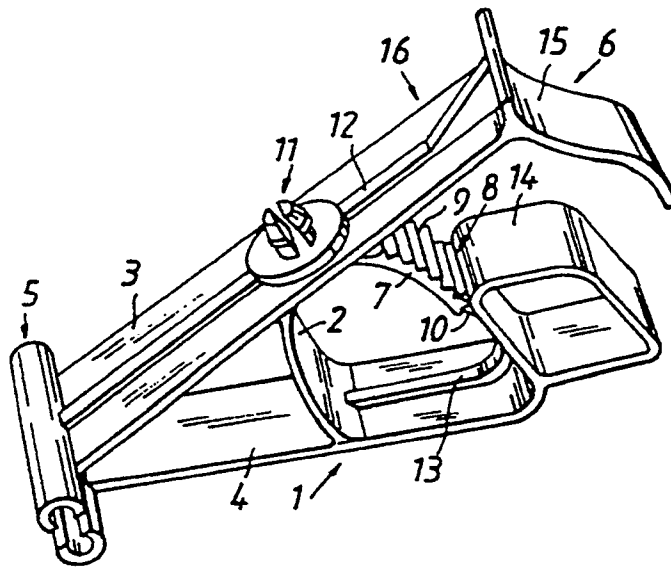
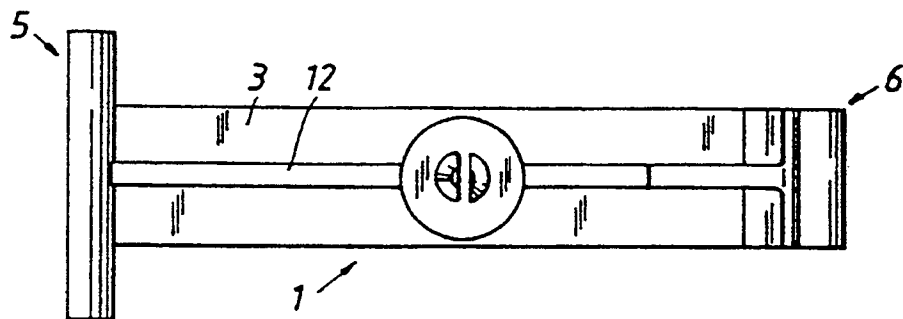


Fig. 2





European Patent
Office

EUROPEAN SEARCH REPORT

Application Number

EP 91 85 0080

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.5)
Y	CH-A-165293 (FREITAG) * figure 1 *	1	F21V21/08
Y	FR-A-2591925 (VAYRIES) * the whole document *	1	
A	DE-C-827927 (WALDES KOH-I-NOOR) * page 2, lines 3 - 28; figure 1 *	2, 3	
A	FR-A-1087401 (GRILLE) * figures 1, 3 *	2, 4	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			F21V F21L F16B B23K A61B B25B
The present search report has been drawn up for all claims			
Place of search THE HAGUE		Date of completion of the search 02 JULY 1991	Examiner VAN OVERBEEKE 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 I : document cited for other reasons & : member of the same patent family, corresponding document			

1

EPO FORM 1503 03.82 (P0401)