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54 Device able to keep edges of blinds, in particular mosquito-nets, in adhesion with relevant frames.

57 A device able to keep edges of blinds, in particular mosquito-nets, in adhesion with relevant frames is disclosed; said device comprising: a supporting element (1) for a stopping lever (2) of a blind (3); said supporting element (1) being able to be engaged on a front wall (4) of a channel (13) of a frame (5); said lever (2) being able to be moved within a first and a second stopping position (A,B) and vice-versa; a longitudinal strip of a material having a high friction coefficient is housed in a groove (12) of said profile (13); said lever (2) having an arched end (24) able to cooperate with said longitudinal strip to stop a first and a second edge (6,7) of said blind (3) on said frame (5).

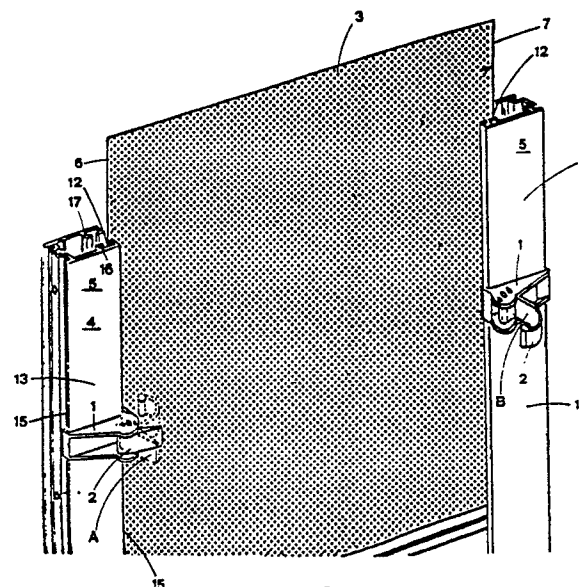


FIG.1

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# DEVICE ABLE TO KEEP EDGES OF BLINDS, IN PARTICULAR MOSQUITO-NETS, IN ADHESION WITH RELEVANT FRAMES

The invention is related to a device able to keep edges of blinds, in particular mosquito-nets, in adhesion with relevant frames to prevent said edges from detaching for gusts or similar causes. At present the edges of said blinds are inserted into longitudinal guide grooves made in frames applied to window ports or the like.

These solutions entail, as more grave disadvantages, possible detachings of said edges from said grooves; these detachings, due to gusts or similar causes, void the scope of the presence of said blinds on the ports encircled by said frames.

The invention is intended to remedy this disadvantage. The invention as it is characterized by the claims, solves the problem of how to realize a device, able to keep edges of blinds, in particular mosquito nets, in adhesion with relevant frames.

By using a device according to the present invention, the following results are achieved: the edges of said blinds do not escape from said guide groove under the thrust of forces due, for example, to gusts.

The advantages achieved by using a device according to the present invention consist essentially in the fact that it is possible to shelter said window ports from the entrance of insects, in any ambient condition or state of the atmosphere; it is further possible to prevent said edges from being worn by the exit of the blind from said guide grooves.

The device is distinguished by the fact that it has a long working life.

The invention is described in detail below by referring to the attached drawings which represent a not restrictive embodiment in which:

Fig.1 is an exploded perspective view of an assembly configuration of the device according to the present invention.

Figs. 2, 3, 4 and 5 show constructive details of the device according to the present invention.

The figures show a device, able to keep edges of blinds, in particular mosquito-nets, in adhesion with relevant frames including essentially a supporting element 1 for a stopping lever 2 of a blind 3 having lateral edges 6 and 7; said supporting element 1 being adapted to be engaged on a front wall 4 of a channel 13 of frames 5; each of said frames 5 is provided with a longitudinal groove 12 adapted to house said lateral edges 6 and 7. Said supporting element 1 is fitted with a first and a second hooking structure 8 and 9 located at a first and at a second end 10 and 11 of said element 1,

respectively; said hooking structures 8 and 9 permitting slidable engagement of said element 1 on a front wall 4 of a channel 13, by hooking on edges 14 and 15, protruding from a front wall 4 of a frame 5, respectively.

Inside the longitudinal groove 12, said channel 13 is provided with opposite moldings 16 and 17 developing along the whole length of said channel 13. On each of said moldings 16 or 17 adheres a longitudinal strip, not shown, made with a material having a high friction coefficient and toward which a face of one of said edge 6 or 7 is disposed so that each edge 6 or 7 is located between two of said strips.

To obtain a suitable support for the blind 3 it is necessary to use two frames 5.

Said lever 2 is equipped with a shaft 18 supported by two holes 19a, 19b made in said supporting element 1; said lever 2 rotates about said shaft 18 within a first stopping position A and a second position B and vice-versa. Said positions A and B being defined by the insertion of two ends 20a and 20b of a pin 21, included in said lever 2, in a first pair of holes 22a and 22b and in a second pair of holes 23a and 23b, respectively; said first pair of holes 22a and 22b and said second pair of holes 23a and 23b being made in said supporting element 1.

Said lever 2 is fitted also with a first lever arm 24 and with a second lever arm 25; said first arm 24 being able to permit movements from said first position A to said second position B and vice-versa.

Said second arm 25 is provided with an end 26, preferably arched, cooperating with said longitudinal strip to fix said first or second edge 6 and 7, with respect to said frame 5 when said lever 2 is in said position B.

This is only one of the possible embodiments of the invention which may be varied without modify its essence.

In particular, in one preferred embodiment of the invention, only one strip is located in said molding 17 to engage edge 6 or 7 from the opposite port on which said arched end 26 acts.

In one embodiment, not shown, said device consists of a supporting element adapted to be engaged on said channel 4 of said frame 5 by fixing means; said supporting element being able to house a rod fitted with a first end able to cooperate with said longitudinal strip to fix said edge 6 (or 7) with respect to said frame 5 under the action of a spring. Said rod is integral with a piston housed in said supporting element to guide

said rod within said supporting element; a first end of said spring biasing said piston to move said rod toward said longitudinal strip.

A hole being made in said wall 4 to allow insertion of said rod in said frame 5.

Said supporting element is also provided with a wall on which a second end of said spring biases; said wall having a hole allowing an operating element for said piston to exit from said supporting element.

In a further embodiment, not shown, said longitudinal strips are missed out. Therefore said stopping means for said edges cooperates directly with an inner wall of said channel to engage said edges on said frame.

### Claims

1. Device able to keep edges of blinds, in particular mosquito-nets, in adhesion with relevant frames including at least: a supporting element (1) adapted to be fixed on a front wall (4) of a channel (13) of a frame (5); one pair of said frames (5) being able to house a blind (3) and in particular a first and a second edge (6,7) of said blind (3); said frame (5) being formed by at least one pair of said channels (13); said device being characterized by the fact that said supporting element (1) is able to support an engaging element (25) for said edges (6,7) of said blind (3) on an inner surface (17) of said channel (13).

2. Device, as in claim 1, characterized by the fact that said supporting element (1) is able to support a stopping lever (2) for a blind (3); said lever (2) being fitted with a shaft (18) able to be supported by two holes (19a, 19b) made in said supporting element (1) and with a first lever arm (24) able to move said lever (2) from a first stopping position (A) to a second position (B) and vice-versa.

3. Device, as in claim 1, characterized by the fact that said positions (A,B) are defined by the insertion of two ends (20a, 20b) of a pin (21), included in said lever (2), in a first pair of holes (22a, 22b) and in a second pair of holes (23a, 23b), respectively; said first and said second pair of holes (22a, 22b, 23a, 23b) being made in said supporting element (1).

4. Device, as in claim 1, characterised by the fact that said lever (2) is further provided with a second lever arm (25) having an arched end (26) able to cooperate with a longitudinal strip of a material having a high friction coefficient to stop said first or said second edge (6,7) with respect to the surface of a molding (17) internal to said frame (5) when said lever (2) is in said position (B); said strip being adherent to said molding (17).

5. Device, as in claim 1, characterized by the fact that said supporting element (1) comprises a first and a second U-shaped structure (8,9) located at a first and at a second end (10,11) of said element (1), respectively; said U-shaped structures (8,9) being able to slidably engage said element (1) on said channel (13).

6. Device, as in claim 1, characterized by the fact that said supporting element is able to house a rod, having a first end able to cooperate with said longitudinal strip to engage said edges (6,7) with respect to said frame (5); said supporting element housing a spring able to bias said rod toward said longitudinal strip and a piston able to guide said rod inside said supporting element; said piston being integral with said rod; a hole being made in said channel (13) for introduction of said rod in said frame (5); said supporting element having a wall on which a second end of said spring biases and in which a hole is made to permit an operating element for said piston to exit from said stopping element.

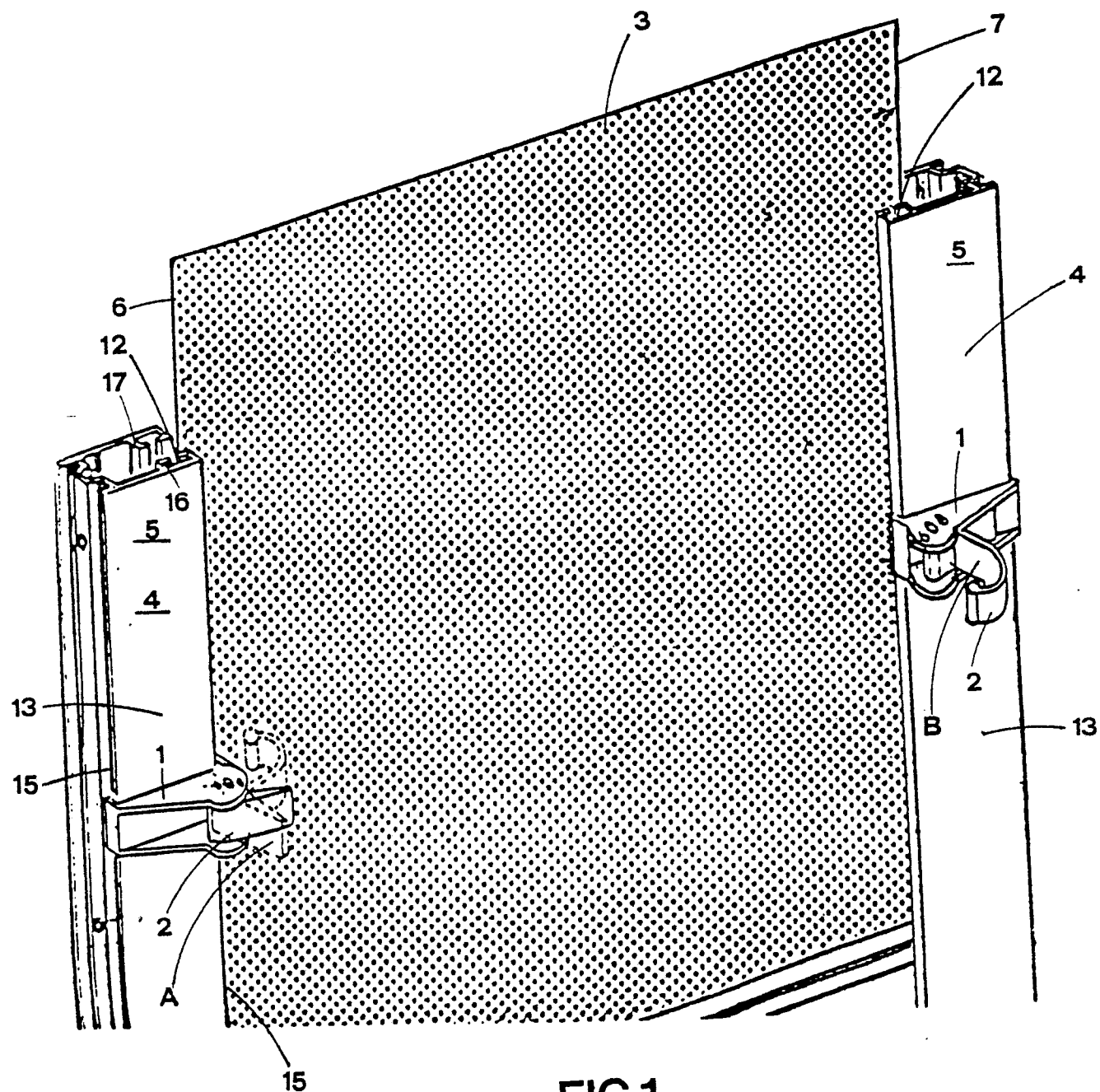


FIG.1

FIG.2

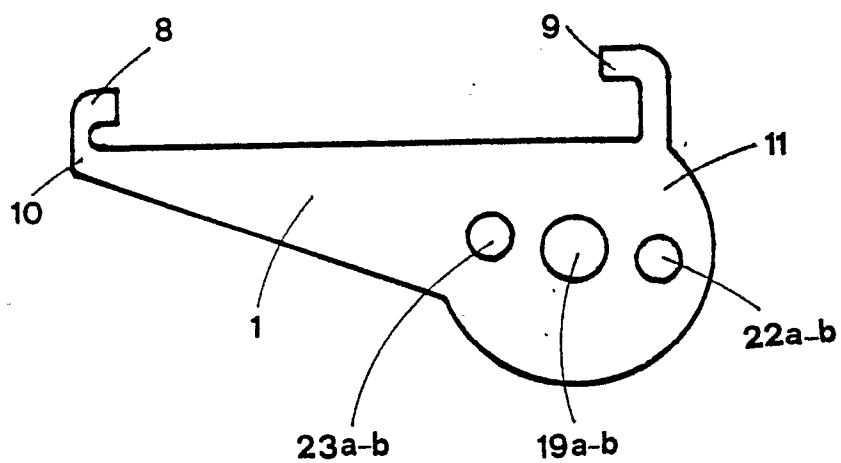
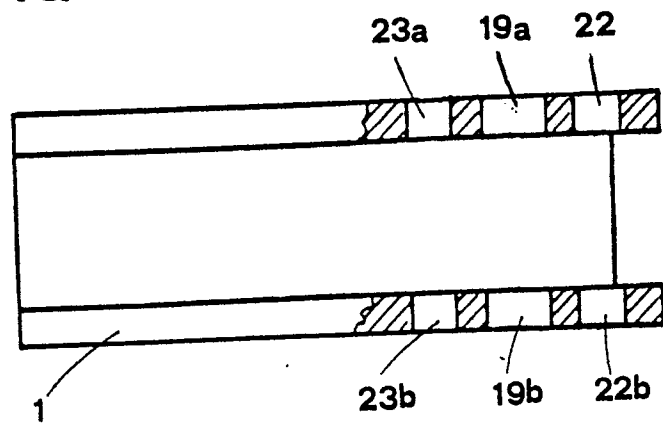


FIG.3

