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AL LT LV MK RO SI(71) Applicant: **Tulli, Alberto****06049 Spoleto (PG) (IT)**(72) Inventor: **Tulli, Alberto****06049 Spoleto (PG) (IT)**(30) Priority: **23.04.1997 IT PG970010 U**(54) **Device for holding a window or window shutter in an open position.**

(57) The "TABLOCK" system invests its interest generally in field of hinges, window-shutters and windows of all kinds.

This invention can resolve alternatively and effectively the problem of the wind. Above all the hinge is an efficient safety system.

Therefore my invention will consent at the same time to achieve two results.

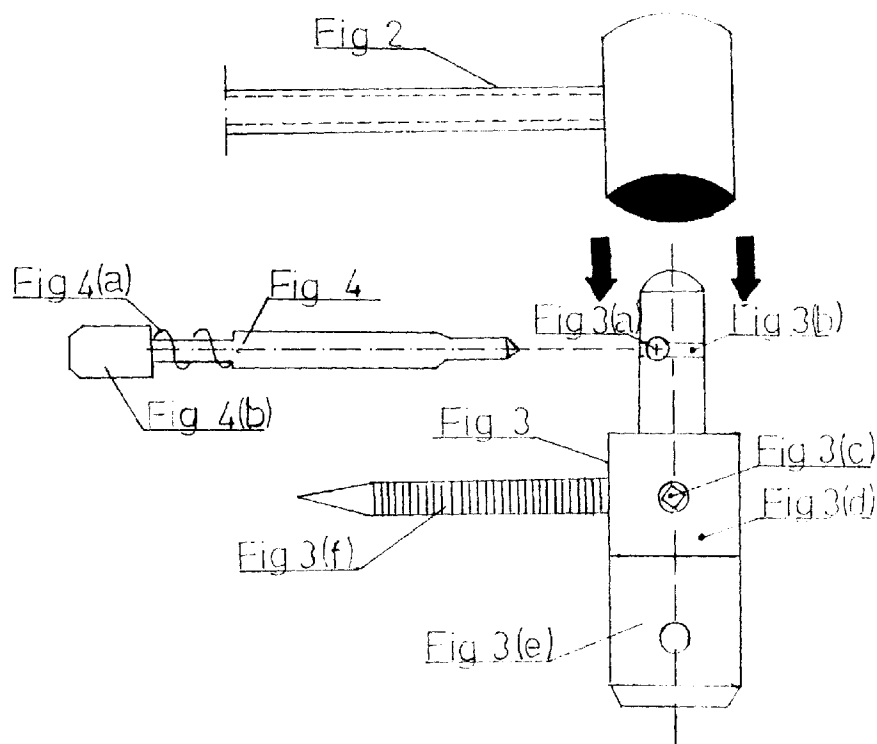
My invention consists of a mechanical blocking and release of the shutters by using a steel pin (4) inside the female hinge (2) (fixed on the chassis of the shutter),

that it is pushed by a spring (4a) and slips into the hole (3a) inside the male hinge (3) fixed on the counter-chassis of the shutter.

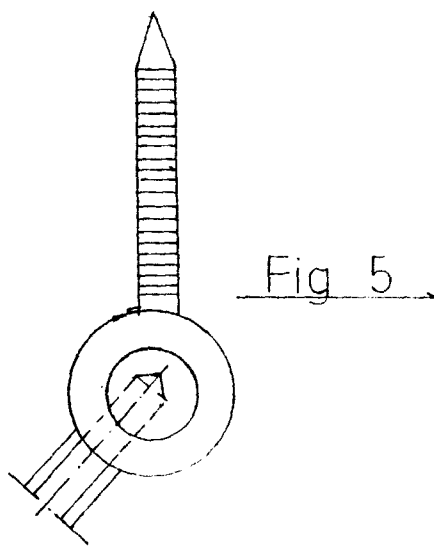
This hole (3a) can be regulated at different degrees of opening by means of an adjustable screw (3c)- leaving someone to choose the blocking and releasing position of the shutter.

Now the shutter is completely opened and blocked.

With my invention it isn't necessary to set up on the wall the curved catches, that have the technical name of "Gobbetti or Colombelle".



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Description

The "TABLOCK" system invests its interest in the field of hinges, window-shutters and windows of all kinds.

Pre-existent technique

In the pre-existent technique the hinge is simply a bearing support that support the shutter or the window and let to open or close it.

If you image now to open the window-shutter, you have to fix it on the wall by means of curved catches, usually called in Italian "Colombelle" or "Gobbetti". In this way the shutter doesn't slam and it is resolved also the problem of wind.

Explanation of the invention

My invention permits to achieve two results:

- It permits to eliminate the curved catches (Gobbetti) and resolve also the problem of wind. The hinge is not only a simple bearing support, but it will become a completely innovative element from the functional angle. That is resolving a problem by means of a completely new manner of working.
- It permits also to make the hinge like a new safety-lock.

The invention consists in a mechanical blocking and release of the window-shutters.

I have created a steel pin (this is my particular innovation), that it is put into the female hinge -Fig.2-. This pin, pushed by a spring, works like a pressure-piston and when someone open the shutter, the pin wheels on his slide guide -Fig.3(a)- inside the male hinge (it can be fixed on the counter-chassis of the shutter or directly on the wall) and it slips into a hole realized inside the male hinge -Fig. 3(b). Now the shutter is completely opened and blocked. The piston -Fig.4- is in the hole by means of the pression of the spring -Fig.4(a).

To close the shutter it is simply sufficient to take out the gummed knob -Fig.4(b)- from the pin, so that the piston drags the shutter, by coming out the hole.

In my invention it is very interesting that the hole inside the male hinge -Fig.3(b)- can be adjustable in different degrees of opening by loosening and tightening an adjusting-screw - Fig.3(c).

By loosening this screw, a part of the male pin wheels and to leave to someone to choose the degrees of opening of the shutter, as someone will. In fact, the male pin of the shutter is only one element but formed by two separated parts: the element -Fig.3(d)- fixed on the counter-chassis of the window or directly on the wall by the threaded screw or the hanger -Fig. 3(f)- and the element that wheel by loosening the adjusting-screw.

This makes my invention also a safety system,

because the hole can be fixed in the locking position of the shutter. For example, you imagine that the hole is regulated by 180° of locking; by opening the shutter the pin slips into the hole and it blocks the shutter. If you want to block the shutter at 45° or 38° or "x" degrees, you can loose the adjusting-screw with a spanner, open the shutter at the desired degree and then you tighten the screw. So, the shutter can be opened and blocked at the desired degree.

Short description of drawings

From the enclosed drawings it is easy to realize everything I have just described.

- In **1-2** it is represented a general section Fig.1 where it is evident the female hinge with the pin, the spring and the gummed knob fixed on the chassis of the shutter. It is evident also the male hinge with a threaded screw fixed on the counter-chassis of the shutter.
- In **2-2** they are represented the separated parts of my invention:

The female hinge -Fig.2-

The male hinge -Fig.3- where it is evident the slide guide of the pin -Fig.3(a)-, the hole in which it is possible to block and release the shutter -fig.3(b), the adjusting screw -Fig.3(c)- and the threaded screw -Fig.3(f) that permit to fix the pin on the counter-chassis of the shutter.

It is evident also the piston in the hole -Fig.4- by means of the pression of the spring Fig.4(a) and the gummed knob. All of these parts are integrating ones of the female hinge.

In the Fig.5 it is summarized a section of the system.

Claims

1. The female hinge -Fig.2-
2. The slide guide for the pin -Fig.3(a)- and the self-blocking hole in the male hinge -Fig.3(b)
3. The adjustable screw for the different blocking-degrees -Fig.3(c)
4. The male hinge -Fig.3- with his fixed element -Fig. 3(d)- and his moving element -Fig.3(e)
5. The threaded screw to fasten on the counter-chassis of the shutter -Fig.3(f)
6. The piston inside the female hinge -Fig.4-
7. The spring -Fig.4(a)- and the gummed knob -Fig.4(b).

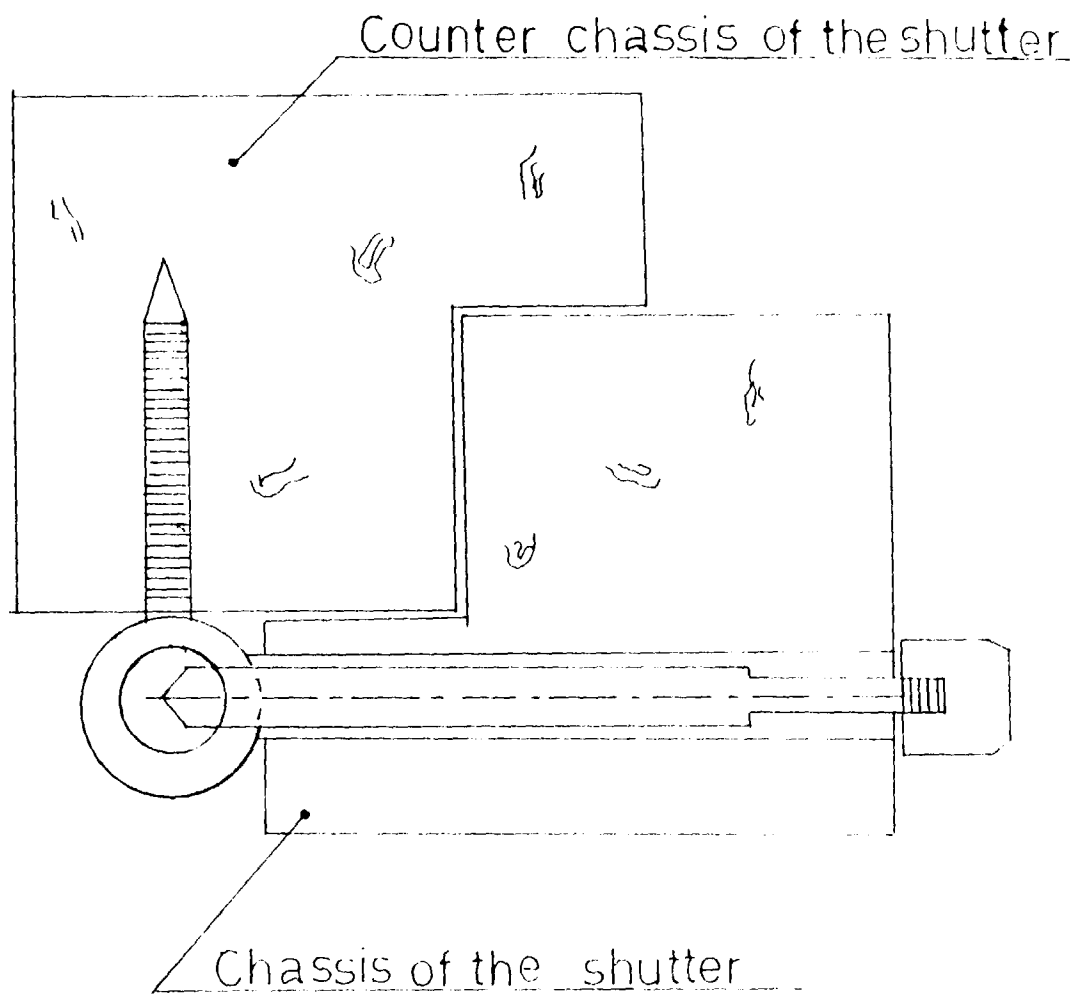


Fig 1

