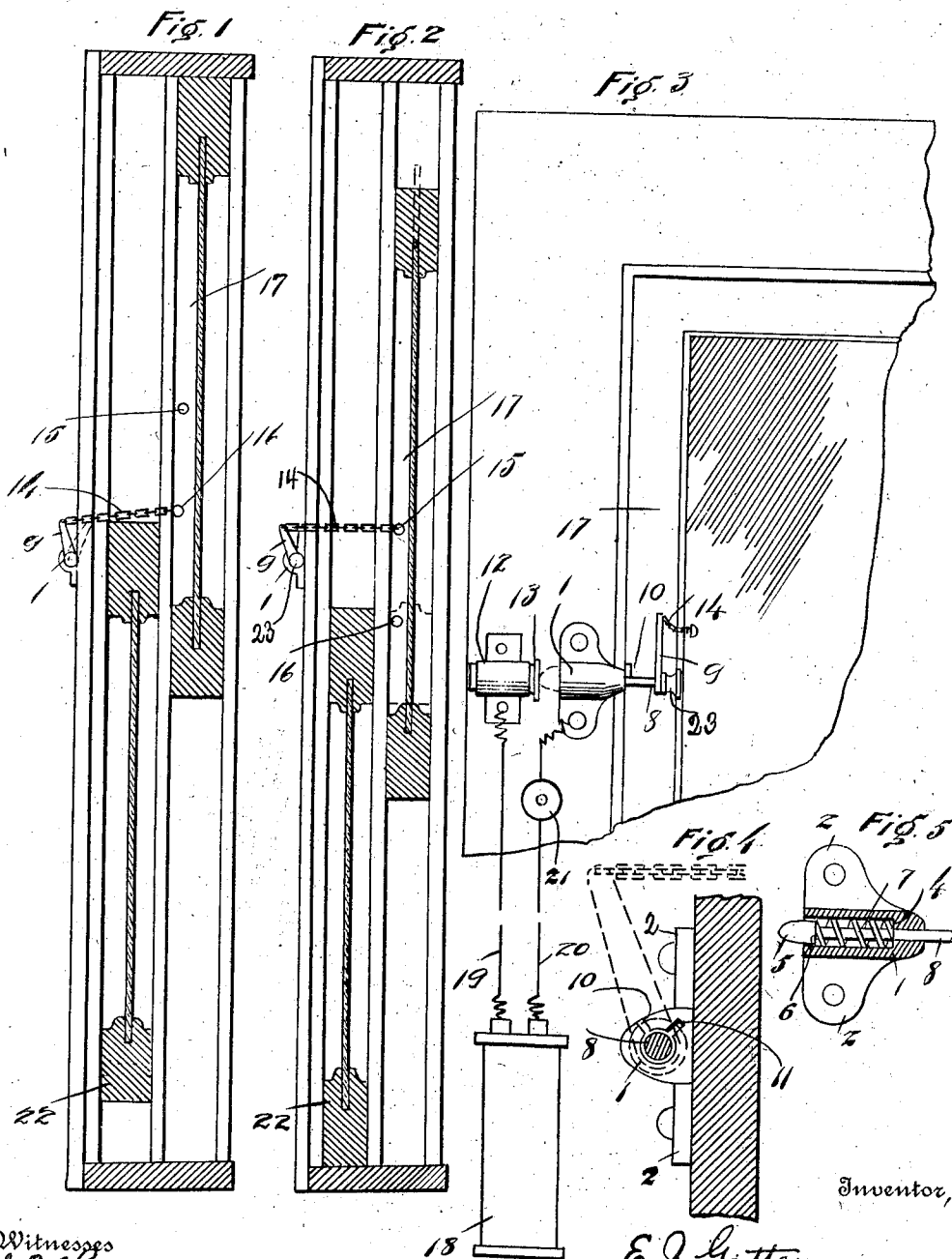


E. Q. GATTEYS.
BURGLAR ALARM.
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1,053,376.

Patented Feb. 18, 1913.



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UNITED STATES PATENT OFFICE.

ELBERT Q. GATTEYS, OF BOONEVILLE, MISSISSIPPI.

BURGLAR-ALARM.

1,053,376.

Specification of Letters Patent.

Patented Feb. 18, 1913.

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To all whom it may concern:

Be it known that I, ELBERT Q. GATTEYS, a citizen of the United States, residing at Booneville, in the county of Prentiss and State of Mississippi, have invented certain new and useful Improvements in Burglar-Alarms, of which the following is a specification.

My invention relates to burglar alarms and particularly to alarms for use with windows or doors when it is desirable to have ventilation through the windows or doors, and the object is to provide certain simple and inexpensive appliances which will be operated easily and with accuracy by the window sash and which is adapted for use on windows provided with upper and lower sash which can be lowered and raised respectively for ventilation, and which will give an alarm on the movement of either window sash.

Other objects and advantages will be fully explained in the following description and the invention will be more particularly pointed out in the claims.

Reference is had to the accompanying drawings which form a part of this application and specification.

Figure 1 is a section of a window frame and sash, showing the application of the burglar alarm applied thereto so that there may be ventilation under the lower sash. Fig 2 is a similar section, showing how the upper sash is arranged for ventilation when the burglar alarm is set. Fig. 3 is a side elevation of a portion of a window frame and sash with the alarm attached thereto. Fig. 4 is a detail section, showing the plunger and its barrel. Fig. 5 is a detail view, showing the plunger barrel in section and showing the actuating spring.

Similar characters of reference are used to indicate the same parts throughout the several views.

A plunger barrel 1 is attached to the window casing by means of integral ears 2. The plunger barrel 1 has an annular interior shoulder 4 and this shoulder forms a spring seat. The plunger 5 has an annular interior shoulder 6 and a spiral spring 7 is mounted on the stem 8 between the shoulder 4 and the shoulder 6. The stem 8 is provided with a lever 9 and a stop 10. The barrel 1 has a slot 11 in one side thereof in which

the stop 10 will move. A keeper 12 is mounted on the window frame near or adjacent to the plunger barrel 1. A cartridge 13 may be mounted in the keeper 12 and charged with powder or other explosive. A chain 14 is attached to the lever 9 and lugs or hooks 15 and 16 are mounted on the sash 17 to be engaged by the chain 14. The charged cartridge 13 provides one means of giving an alarm.

The alarm can be made continuous by an electric circuit and bell. A battery 18 is provided and a wire 19 is electrically connected to one pole of the battery and to the keeper 12. A wire 20 is electrically connected to the other pole of the battery and to the plunger barrel 1. The wire 20 is intercepted and connection is made through a bell 21 from the battery 18 to the barrel 1. Electric connection is made from the barrel 1 to the plunger stem 8 and the plunger itself. The circuit is completed when the plunger is thrown by the plunger coming in contact with the metallic head of the cartridge 13. The cartridge 13 will make electric connection with the keeper 12. The alarm can be used with both the cartridge 13 and without the cartridge. When the cartridge is removed, the plunger 5 will make electric connection direct with the keeper 12, and thus cause the bell to ring. The alarm, when set, is started by the movement of either the sash 17 or sash 22.

To set the alarm for ventilation under the lower sash.—Place the end of the chain 14 on the hook 16. Take hold of knob 23 and pull on the stem 8, compressing the spring 7 to full tension. Then turn the lever 9 to the left until the stop 10 will rest against the end of the barrel 1. The lower sash 22 can then be raised up until the top of the sash will touch the chain. The alarm is now set. If the sash should be raised farther, it would pull on the lever 9 and bring the stop 10 over the socket 11 and then the plunger would fall and set off the alarm.

To set the alarm for ventilation over the top sash.—Place the chain on the hook 15, the top sash having been lowered to a suitable position for ventilation. Take hold of the knob 23 and pull on the stem 8 and compress the spring 7 and turn the lever to make the stop 10 rest against the end of the barrel 1. If the sash 17 is moved in either

direction, the chain will pull on the lever and thus throw the plunger and set off the alarm.

To set the alarm for ventilation at both the top and bottom.—Set the alarm the same as for ventilation at the top and then raise the lower sash up until the top touches the chain 14. If the lower sash is raised or the upper sash is lowered, the alarm will be set off.

Two means are shown for giving alarms. These can be used jointly or separately.

Having fully described my invention, what I claim as new and desire to secure by Letters Patent, is,—

1. The combination of upper and lower window sash and a burglar alarm consisting of a metallic bracket attached to the window frame and carrying alarm making devices, a metallic barrel attached to the window frame and having a slot in communication with the opening through the barrel, a spring-actuated plunger operating in said barrel and having a stem projecting therefrom, a lug rigid with said stem adapted to move in said slot and adapted to rest against the mouth of said barrel and hold said plunger at tension, a lever rigid with said stem, a chain engaging said lever at one end and extending across the path of the lower sash, and means for attaching said chain to the upper sash at different po-

sitions on said sash whereby the movement of either sash will cause said plunger to be thrown.

2. The combination of upper and lower window sash and a window frame, a burglar alarm consisting of a metallic bracket attached to the window frame and carrying alarm-making devices, a metallic barrel attached to the window-frame and having a slot in communication with the opening through the barrel, a spring-actuated plunger operating in said barrel and having a stem projecting therefrom, a stop lug rigid with said stem and adapted to move in said slot and rest against the mouth of said barrel to hold said plunger at tension, a lever and an operating knob rigid with said stem, a chain engaging said lever at one end and extending across the path of the lower sash, and means for attaching said chain to the upper sash at different positions on said sash, whereby the movement of either sash will cause said plunger to be thrown for actuating said alarm-giving devices.

In testimony whereof, I set my hand in the presence of two witnesses, this twentieth day of January, 1912.

ELBERT Q. GATTEYS.

Witnesses:

SIDNEY S. STEPHENS,

GUY YOUNG.