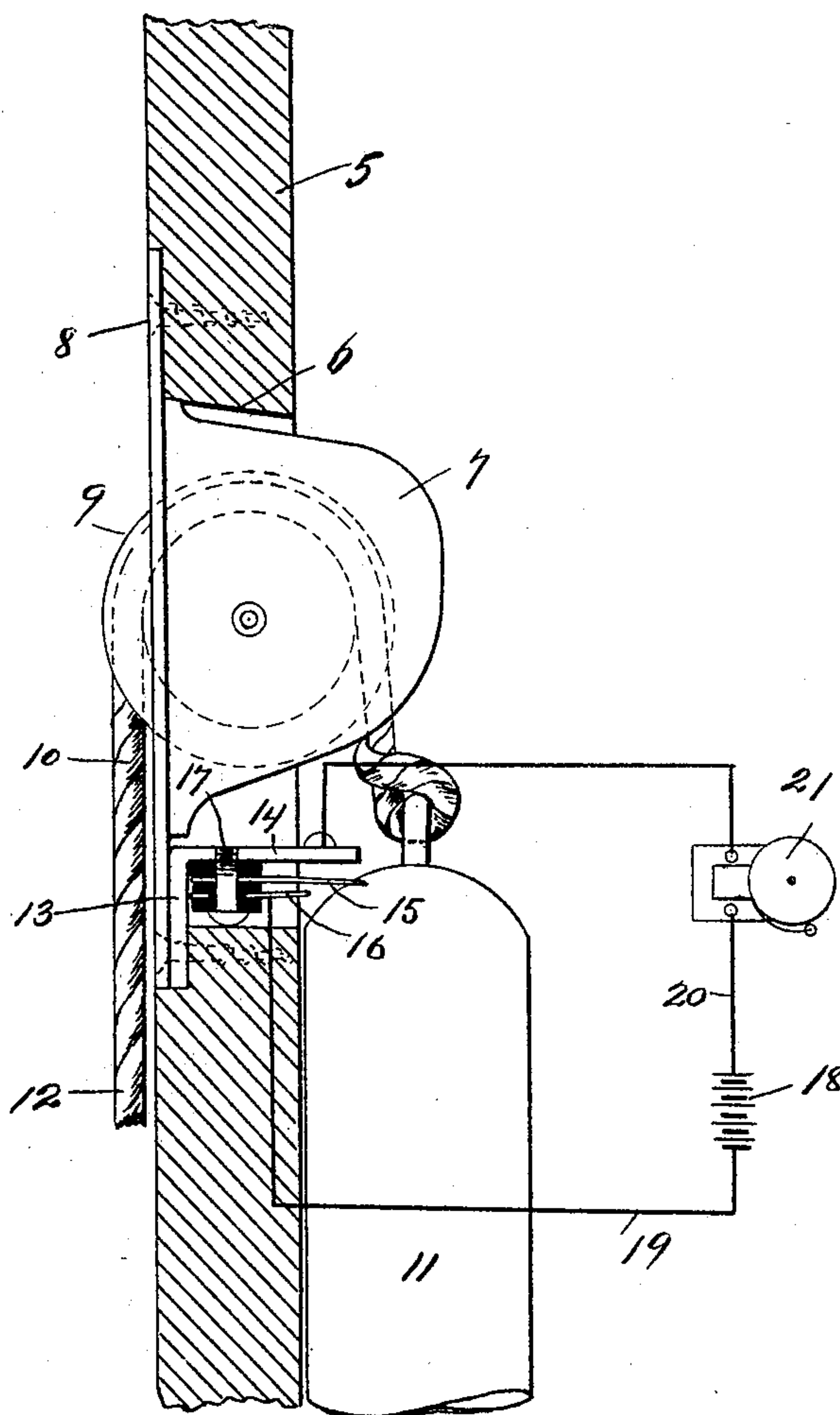


(No Model.)

P. V. VANDEVELDE.
AUTOMATIC ELECTRIC ALARM DEVICE.

No. 592,503.

Patented Oct. 26, 1897.



WITNESS

C. Vordy
L. M. Muller

INVENTOR

Paul Victor Vandeveld
BY
Edgar Tate & Co.
ATTORNEYS

UNITED STATES PATENT OFFICE.

PAUL VICTOR VANDEVELDE, OF CORONA, NEW YORK.

AUTOMATIC ELECTRIC ALARM DEVICE.

SPECIFICATION forming part of Letters Patent No. 592,503, dated October 26, 1897.

Application filed July 26, 1897. Serial No. 646,025. (No model.)

To all whom it may concern:

Be it known that I, PAUL VICTOR VANDEVELDE, a citizen of the United States, residing at Corona, in the county of Queens and State of New York, have invented certain new and useful Improvements in Automatic Electric Alarm Devices, of which the following is a full and complete specification, such as will enable those skilled in the art to which it ap-
10 pertains to make and use the same.

This invention relates to automatic electric alarm devices for use in connection with window-sashes provided with counterbalance-weights; and the object thereof is to provide
15 an improved device of this class which is adapted to be operated when the sash is raised or an attempt is made to raise the sash.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, said drawing being a sectional side view of a part of one
20 side of a window-frame and showing my improvement connected therewith.

In the drawing forming part of this specification the separate parts of my improvement are designated by numerals of reference, and in said drawing I have shown a bar, plate, or board 5, which forms a part of one
25 side of a window-frame, in which is formed a transverse opening 6, in which is mounted a casing 7, which is provided with a plate 8, which is secured to the inner side of the plate or board 5.

Mounted in the casing 7 and projecting
35 through the plate 8 is an ordinary grooved pulley-wheel 9, and passing over said pulley-wheel is the usual window-sash cable 10, the outer end of which is connected with a counterbalance-weight 11, which moves in a suitable vertical chamber formed in the side of the window-frame in the usual manner, said chamber being not shown. It will be understood that this construction is exactly the same at both sides of the window, and the sash
40 is connected with the end 12 by the cable 10 in the usual manner, and in my invention I secure to the lower end of the plate 8, in the lower end of the transverse chamber 6, in which the casing 7 is mounted, a plate 13, which is provided with an outwardly-directed
50 arm 14, and I also provide two spring-arms

15 and 16, which are connected with the arm 14 of the plate 8 by a bolt 17, and the spring-arm 15 is in electrical connection with the bolt 17, but the spring-arm 16 is insulated
55 from said bolt and from the plate 13 and the arm 14 thereof, or, in other words, said spring-arm 16 is entirely insulated, while the spring-arm 15 is in electrical connection with the arm 14.
60

When the window-sash is closed or in its lowest position, it being understood that this apparatus as shown and described is applied to the lower sash, the weight 11 is in the position shown in the drawing, and the spring-arm 15 presses upon the upper end of said weight; but if the sash be raised the counterbalance-weight 11 will be lowered and the spring-arm 15 will move downward and come in contact with the spring-arm 16.
70

When the weight 11 is not in its highest position, as shown in the drawing, the spring-arm 15 rests on the arm 16, and the window-sash must be lowered to its lowest position in order to separate the arms 15 and 16. I
75 also provide a battery 18, which is provided with two wires or conductors 19 and 20, and one of these wires or conductors is connected with the arm 16 and the other with the arm 14 of the plate 13, as clearly shown in the
80 drawing, and placed in the circuit thus formed is an electric alarm 21, and the operation will be readily understood from the foregoing description when taken in connection with the accompanying drawing and the following
85 statement thereof.

Suppose the sash to be in its lowest position. The parts of my improvement will occupy the position shown in the drawing, and if an attempt be made to raise the sash the
90 weight 11 will move downwardly and the spring-arm 15 will come in contact with the arm 16 and the circuit will be completed and the alarm be operated; but when said window-sash is in its lowest position the circuit
95 will be broken, as will be readily understood, the parts then assuming the position shown in the drawing.

It will be understood that the electric alarm is only connected with one side of the sash or
100 window-frame, and it will also be apparent that my improvement may be connected with

the upper sash as well as the lower one, in which event the alarm would be operated when the upper sash is lowered.

My improvement is simple in construction 5 and operation and perfectly adapted to accomplish the result for which it is intended, and it will be apparent that changes in and modifications of the construction herein described may be made without departing from 10 the spirit of my invention or sacrificing its advantages.

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

15 1. The combination with the frame and sash of a window of an electrical-alarm device comprising a contact-point mounted in said frame, a spring-brush mounted adjacent thereto and adapted to rest normally in contact there- 20 with, said contact-point and brush being in electrical connection with the circuit whereby the circuit is completed when the said brush is in engagement with the said contact-point, the brush being held out of con- 25 tact with the said contact-point by the sash-weight when the sash is in a closed position, for the purpose set forth.

2. The combination with a window of an

electrical-alarm device comprising a plate 30 mounted in the window-frame adjacent to the sash-cord pulley, a spring-brush in contact therewith and projecting into the chamber in which the sash-weight moves, a contact-point mounted adjacent to said spring-brush and normally in contact therewith, said 35 contact-point being insulated from the said first plate and spring-brush, said first plate and contact-point being in electrical connection with the circuit which is provided with an electric gong, the said spring-brush being so 40 constructed that it will be engaged by the sash-weight when the window is closed and raised out of contact with said contact-point whereby the circuit is broken when the sash 45 is closed and closed by the operation of the sash, substantially as and for the purpose described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 23d 50 day of July, 1897.

PAUL VICTOR VANDEVELDE.

Witnesses:

L. M. MULLER,

A. C. McLOUGHLIN.