

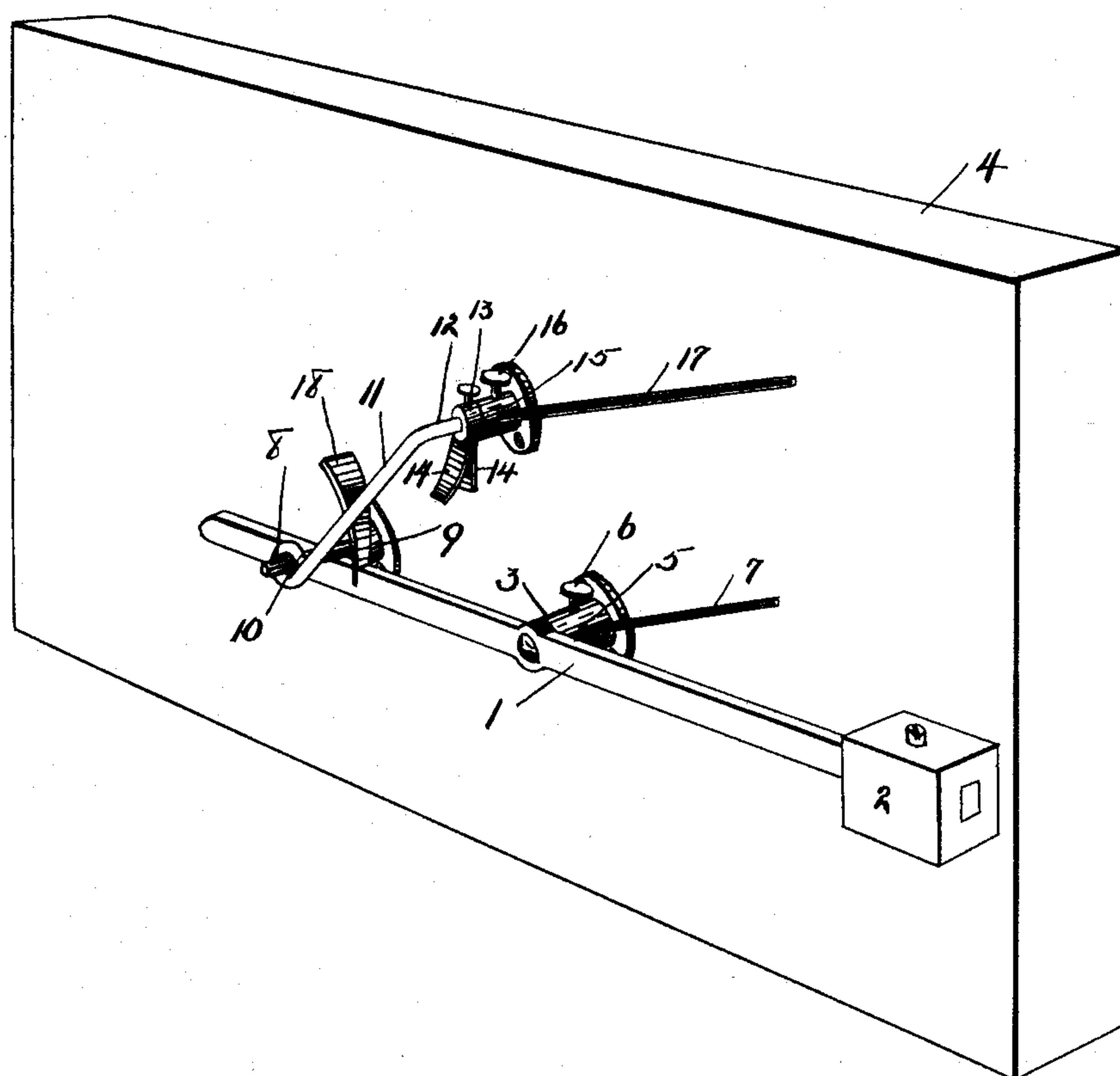
**No. 618,526.**

**Patented Jan. 31, 1899.**

**F. D. WALLACE.**  
**FIRE ALARM.**

(Application filed June 1, 1898.)

(No Model.)



**WITNESSES:**

Frank A. Fable

A. B. Johnson

INVENTOR

Franklin D. Wallace.

BY

Arthur M. Hood

ATTORNEY.

# UNITED STATES PATENT OFFICE.

FRANKLIN D. WALLACE, OF WHEATLAND, INDIANA.

## FIRE-ALARM.

SPECIFICATION forming part of Letters Patent No. 618,526, dated January 31, 1899.

Application filed June 1, 1898. Serial No. 682,244. (No model.)

*To all whom it may concern:*

Be it known that I, FRANKLIN D. WALLACE, a citizen of the United States, residing at Wheatland, in the county of Knox and State of Indiana, have invented a new and useful Fire-Alarm, of which the following is a specification.

My invention relates to an improvement in fire-alarms.

10 The object of my invention is to produce a cheap and efficient alarm of the class described in which the circuit closing or opening mechanism is released by the melting or burning of a fusible plug.

15 The accompanying drawing is a perspective view of a device embodying my invention and properly illustrates the same.

In the drawing, 1 indicates a pivoted lever one arm of which is heavier than the other. 20 This excess of weight may be produced by means of an adjustable weight 2, if desired. Lever 1 is preferably pivoted upon a standard 3, which may be secured to a wall or a suitable base 4. The standard 3 is provided with an opening 5 and a binding-screw 6, by means of which a wire 7, forming part of an alarm-circuit, may be attached. The lighter end of the lever 1 is arranged to be engaged by a non-conducting fusible plug or stop 8, 25 the inner end of which is received within a socket 9 and the outer end of which is supported within an eye 10, formed in the outer end of a rod or wire 11, the inner end of which is provided with suitable means by which it 30 may be secured to the base 4. A portion 12 of the rod 11 is substantially at right angles to the lever 1, and longitudinally mounted upon this portion is a collar 13, provided with a pair of spring-fingers 14 14, which may be 35 arranged to receive at times the lever 1. The inner end of the rod 10 is provided with an opening 15 and a binding-screw 16, by means of which a wire 17, forming a part of an alarm-circuit, may be attached.

45 In order to prevent the burning or fusing of the stop 8 from injuring the contact-places, I mount upon lever 1 a shield 18, which extends up over the said stop when in position, as shown in the drawing.

50 In order to set the device, the lighter end of the lever 1 is thrown down until it lies below the socket 9. A fusible plug 8 is then

inserted through eye 10 and into socket 9 above the lever, thus holding it out of its normal position in the position shown in the 55 drawing. In case the temperature of the room rises above the fusing-point of the plug the said plug melts, thus releasing the lever 1 and allowing it to swing, owing to the action of the weighted end, into engagement 60 with the fingers 14, thus closing the alarm-circuit.

It will be readily understood that the fingers 14 may be so placed as to be engaged by any portion of the lever 1 or that the parts 65 may be so arranged as to form a closed circuit, which will be broken by the fusing of the plug 8 and the consequent movement of the swinging lever. It will also be understood that the lever 1 may swing directly 70 into contact with the portion 12 of the arm 11 instead of the fingers 14, if desired, the said fingers being merely introduced to insure a better contact.

I claim as my invention—

1. In a device of the class described, the combination with a lever having a weighted end and pivoted upon a standard arranged to form one terminal of an alarm-circuit, of a second terminal arranged in the path of 80 movement of said lever, means for holding a fusible plug or stop in position to maintain said lever out of its normal position, and a shield carried by said lever in position to project over such plug and thereby protect the 85 second terminal.

2. In a device of the class described, the combination with a lever having a weighted end and pivoted upon a standard arranged to form one terminal of an alarm-circuit, of 90 a second terminal arranged in the path of movement of said lever, a pair of spring-fingers carried by said second terminal in the path of movement of said lever, means for holding a fusible plug or stop in position to 95 maintain the said lever out of its normal position, substantially as described, and a shield carried by said lever in position to project over the plug and protect the second terminal.

FRANKLIN D. WALLACE.

Witnesses:

SHERMAN HARVEY,

ANDREW E. NICHOLSON.