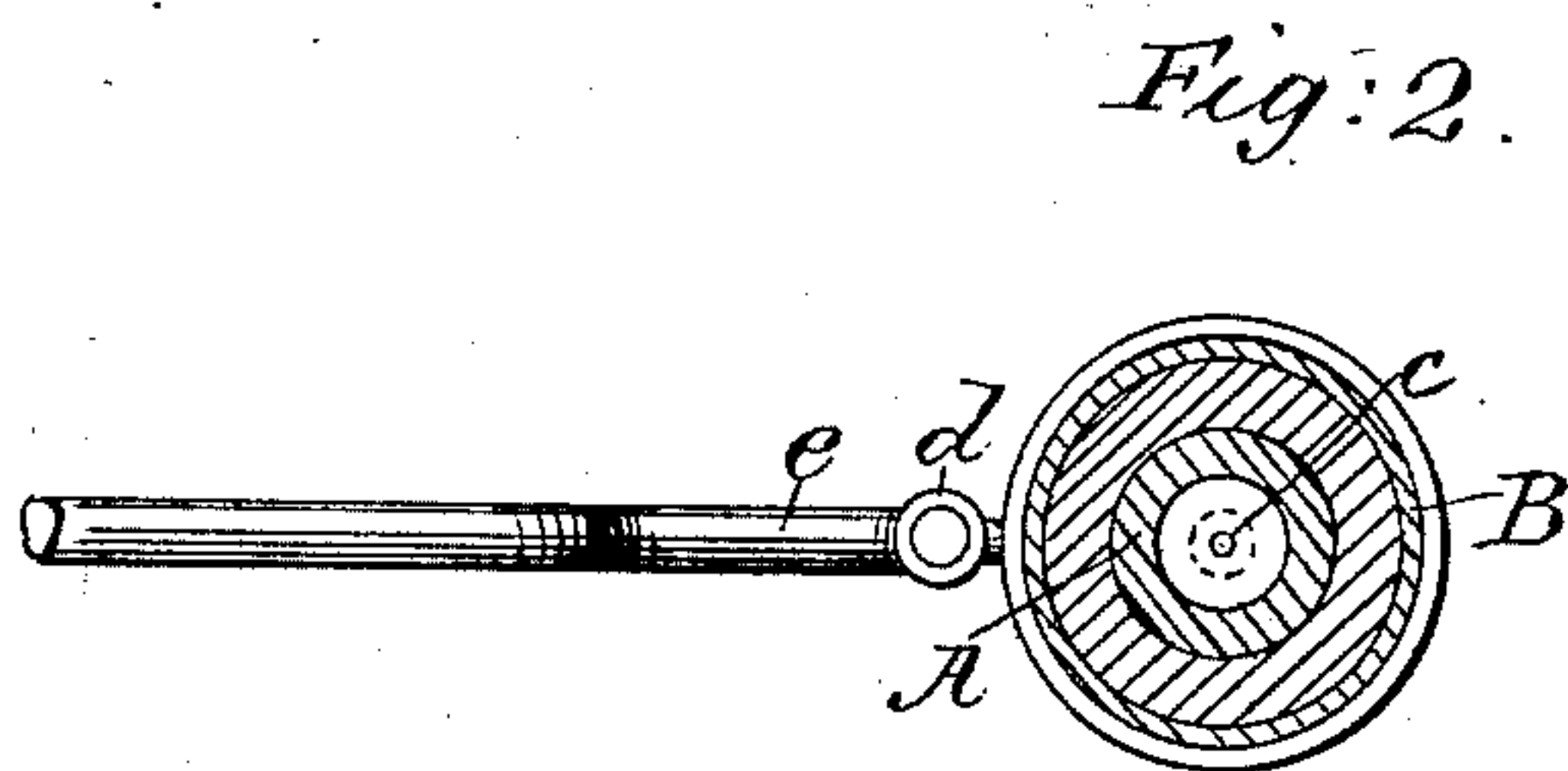
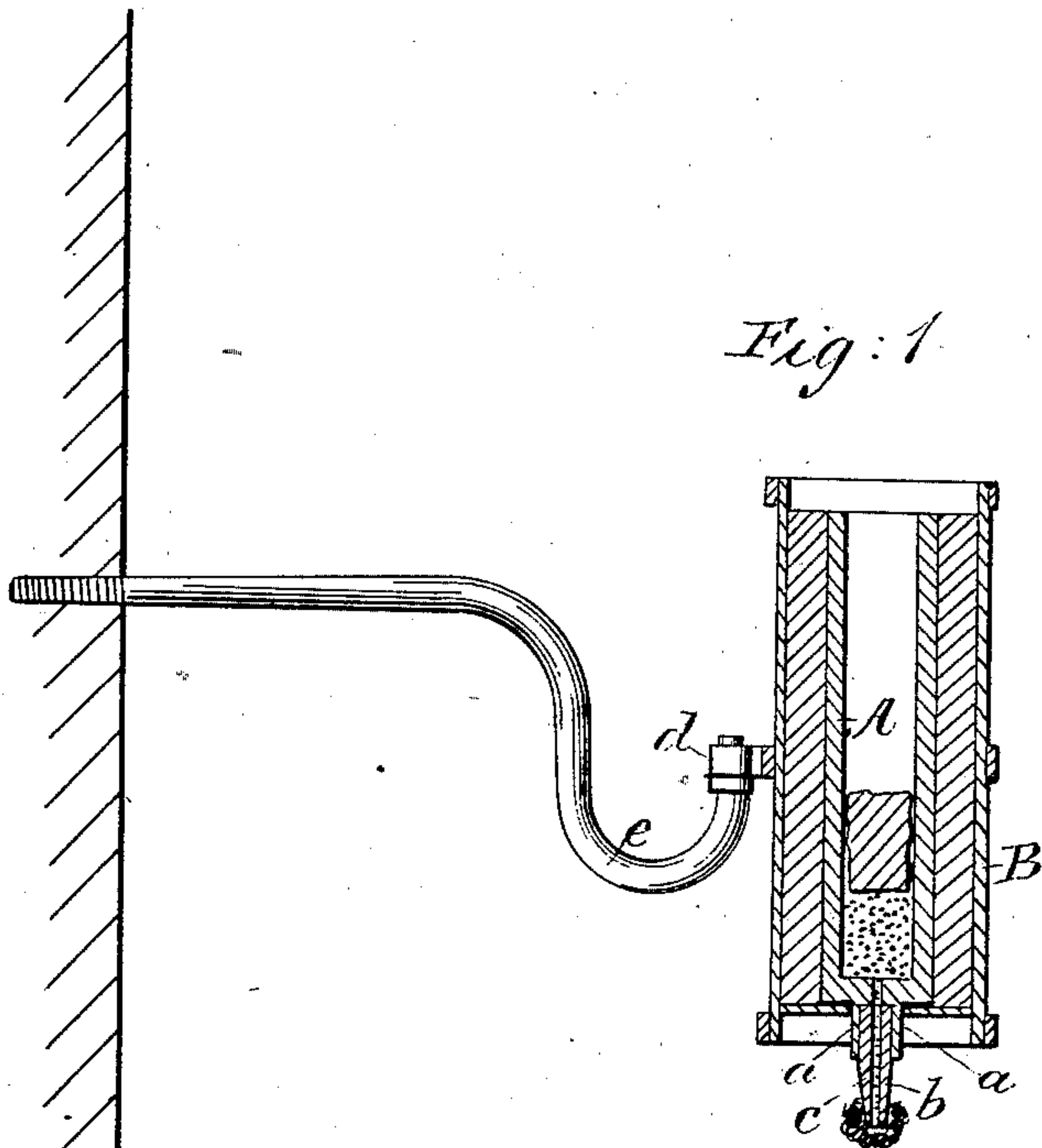


J. R. TUNNICLIFF.

Fire Alarm.

No. 35,050.

Patented April 22, 1862.



Witnesses.
J. W. Coombs
Geo. Reed

Inventor
J. R. Tunncliffe
per Munn & Co
Attorneys

UNITED STATES PATENT OFFICE.

JOHN R. TUNNICLIFF, OF VAN HORNESVILLE, NEW YORK.

IMPROVED FIRE-ALARM.

Specification forming part of Letters Patent No. 35,050, dated April 22, 1862.

To all whom it may concern:

Be it known that I, JOHN R. TUNNICLIFF, of Van Hornesville, in the county of Herkimer and State of New York, have invented a new and Improved Fire-Alarm; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, in which—

Figure 1 represents a vertical central section of my invention. Fig. 2 is a horizontal section of the same.

Similar letters of reference in both views indicate corresponding parts.

To enable those skilled in the art to fully understand and use my invention, I will proceed to describe its construction and operation with reference to the drawings.

The barrel A, which, for the sake of convenience, may be surrounded by a case, B, of brass or any other suitable material, is furnished with a socket, *a*, on its bottom, and into this socket the match *b* is inserted. This match may be made of wood or any other suitable material, and a small channel, *c*, passing through the entire length of the match and through the bottom or breech of the barrel, serves as the touch-hole. The end or nozzle of the match *b* is dipped into some composition which will ignite at a certain fixed temperature.

The case B is provided with a socket, *d*, to fit into the end of a hook, *e*, that screws into the wall of a room or house; or the whole device may be put up by other suitable means in the room or house in which it is intended to be used, care being taken to place it out of the reach of children or other persons that otherwise might be tempted to meddle with it. The match may be further protected by a wire screen fitting on the case B.

A small charge of gunpowder is put into the barrel, the channel *c* having been charged with fine powder or fuse, which will readily ignite, and the device is left undisturbed in its position. If a fire should occur in the room or place where the alarm is located, the temperature will speedily rise, causing the match to ignite and explode the charge of the barrel. By the report the attention of the inmates of the house or of a neighboring room is called to the fact that a fire is in progress, and steps can be taken to extinguish the same before it is too late.

This fire-alarm is very cheap, it can be manufactured at a trifling expense, it can be put up entirely out of the way, and its action is certain, so that it will never fail to explode whenever by some cause the temperature of the surrounding atmosphere rises beyond a certain point.

I am aware that a fire-alarm has been suggested in which a gun-barrel charged with powder and having a weighted hammer, &c., were so connected with strings running through the house that when those strings were burned the weight would fall and explode the powder. I claim nothing of this kind; but,

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

As an improved article of manufacture, a fire-alarm composed of a barrel, A, and quick match *b*, combined and operating substantially as herein shown and described.

JOHN R. TUNNICLIFF.

Witnesses:

MILTON COUNTRYMAN,
DANIEL VAN HORNE.