

No. 711,707.

Patented Oct. 21, 1902.

J. B. MIESSE.
AUTOMATIC FIRE EXTINGUISHER.

(Application filed Apr. 29, 1902.)

(No Model.)

Fig. 1.

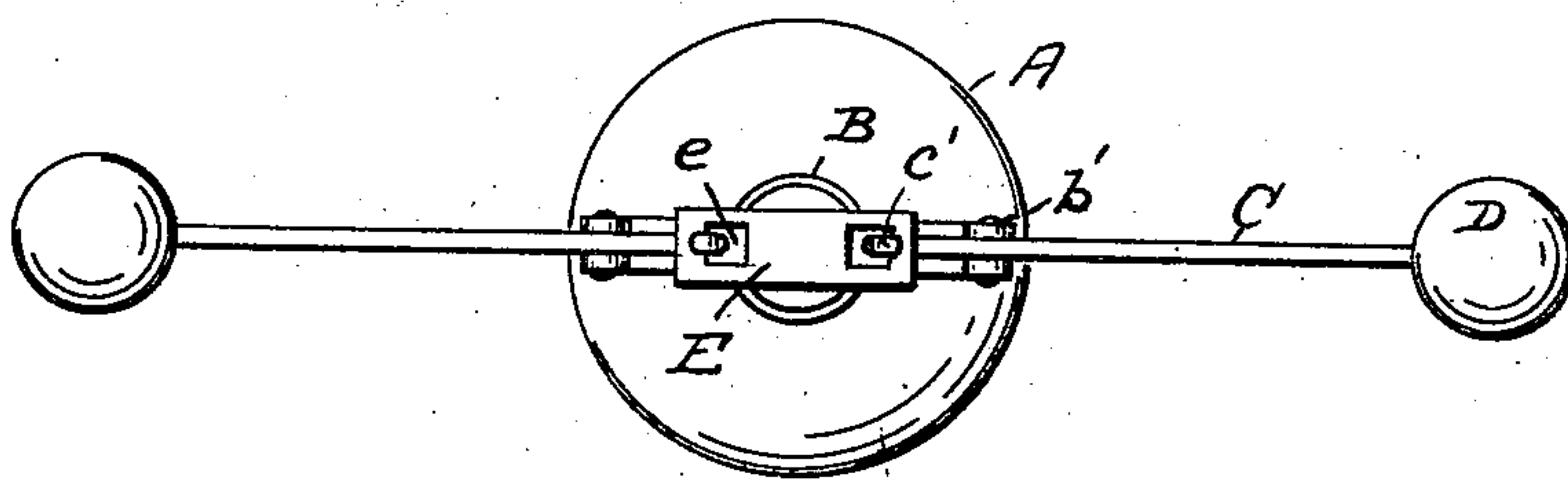
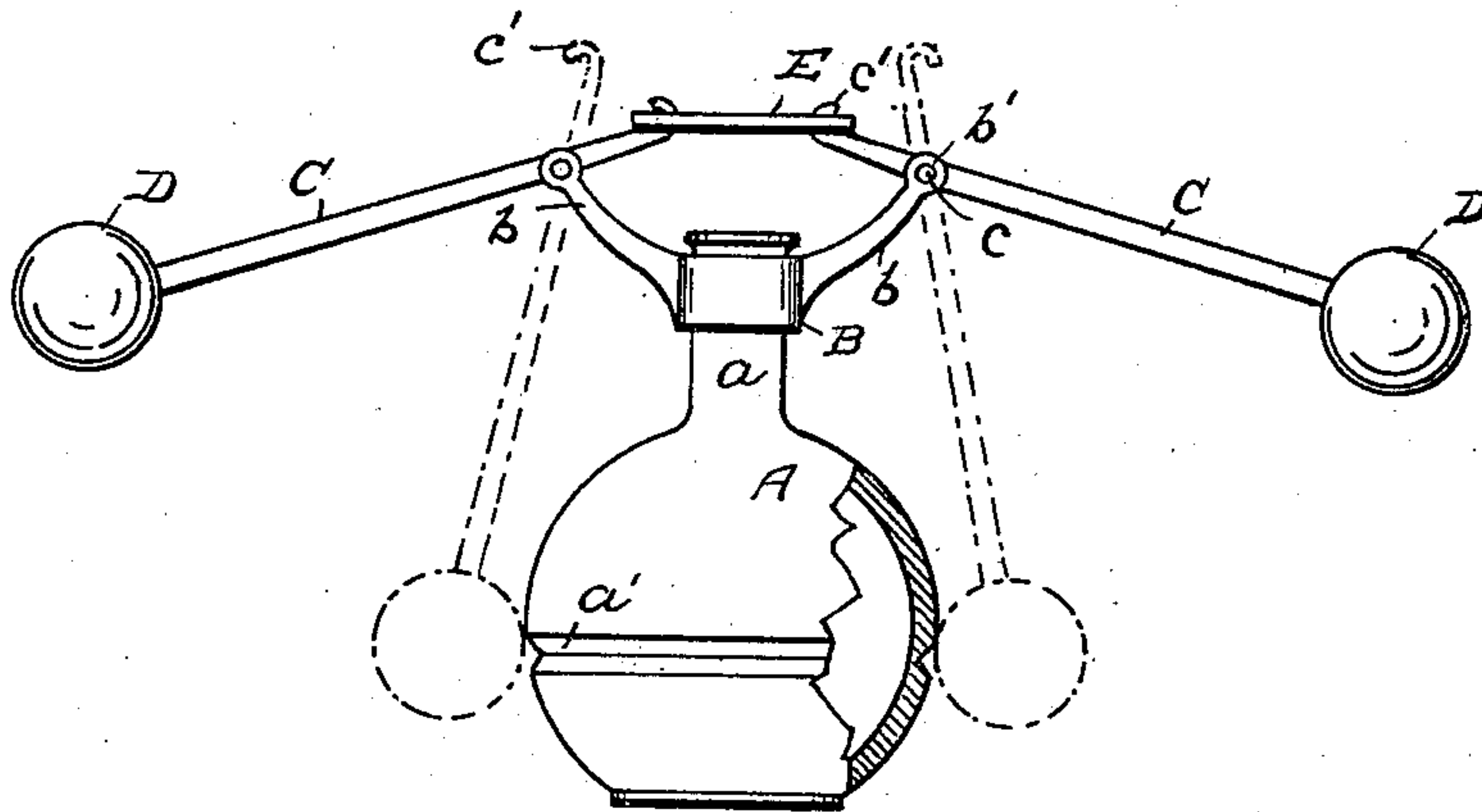


Fig. 2.

Witnesses
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UNITED STATES PATENT OFFICE.

JONATHAN B. MIESSE, OF READING, PENNSYLVANIA.

AUTOMATIC FIRE-EXTINGUISHER.

SPECIFICATION forming part of Letters Patent No. 711,707, dated October 21, 1902.

Application filed April 29, 1902. Serial No. 105,153. (No model.)

To all whom it may concern:

Be it known that I, JONATHAN B. MIESSE, a citizen of the United States, residing at Reading, in the county of Berks and State of Pennsylvania, have invented certain new and useful Improvements in Automatic Fire-Extinguishers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in automatically-operated fire-extinguishers.

The invention consists of a receptacle of frangible material adapted to hold the extinguishing material and in means for automatically breaking said receptacle when the atmosphere surrounding it has attained a predetermined temperature.

The details of construction are fully described in the following specification, and the device is clearly indicated in the accompanying drawings, in which—

Figure 1 shows my device in elevation set and ready for operation, and Fig. 2 is a plan view of the same.

The vessel A is of glass or other like material and is adapted to hold the extinguishing material, which may be either in liquid or other form. This vessel is preferably bulbular in form and has a contracted neck *a* and is formed with one or more weakened points *a'* in the body thereof. A yoke B surrounds the neck *a* of the vessel A and has two upwardly-extending arms *b*, in the extremities of which are formed jaws *d'*, having eyes *b²* therein. A rod C is pivotally mounted in each of these jaws by means of a pin *c* near the upper ends of said rods. The inner ends of said rods C are formed with hooks *c'* and their lower ends have formed thereon weights D. A plate or link E of any suitable fusible material having openings *e* near either end engages the hooked ends *c'* of said rods C and tends to hold the rods in substantially horizontal position, as indicated in solid lines in Fig. 1.

The fusible plate E may be made to melt at any desired temperature.

The whole device may be suitably supported by hanging it above the article particularly intended to be protected from fire, or it may rest on any suitable shelf or support. When the temperature of the atmosphere surrounding it reaches the point at which the fusible plate E melts, the rods C will be released from their horizontal position, due to the binding together by said plate E, and the weights D will drop to the position indicated in dotted lines in Fig. 1. These weights D are arranged to strike the frangible vessel A at its weakened point *a'*, thus assuring the breaking of said vessel and the distribution of the extinguishing material contained therein.

It is evident that the relative positions of the weights and the frangible vessel may be reversed—that is, two vessels containing the extinguishing material may be held aloft by means of the fusible plate and when released strike a solid body located where the vessel A is in the present case located, or they may strike each other.

Having thus fully described the invention, what I claim, and desire to secure by Letters Patent, is—

In an automatically-operated fire-extinguisher a frangible vessel adapted to hold the extinguishing material having one or more weakened points in the body thereof, a yoke mounted on the neck of said vessel and having upwardly-extending arms, rods pivoted in said arms, hooks formed on the inner ends of said rods, weights formed on the outer ends of said arm and a fusible plate or link adapted to engage said hooked ends and hold the rods in substantially horizontal position, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

JONATHAN B. MIESSE.

Witnesses:

ED. A. KELLY,
GEO. M. MILLER.