

(No Model.)

F. A. COPELAND.

FIRE ALARM.

No. 286,393.

Patented Oct. 9, 1883.

Fig. 1.

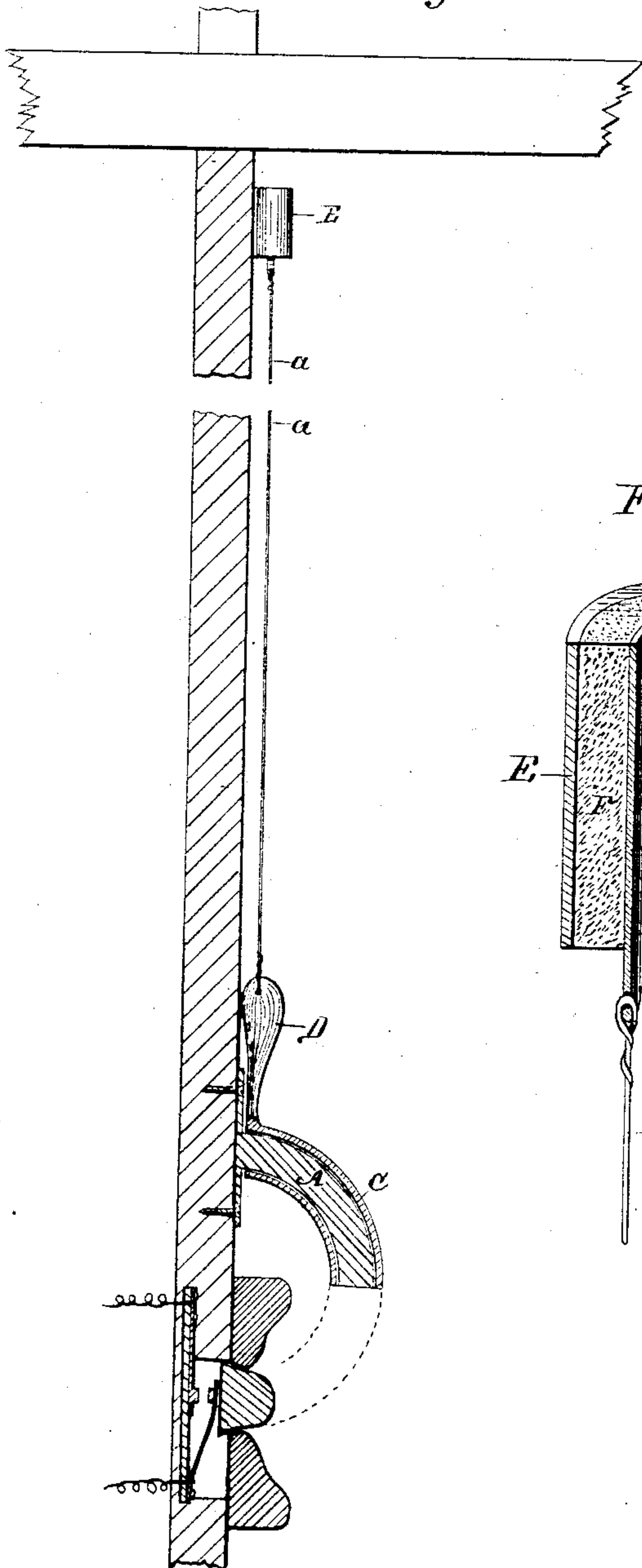
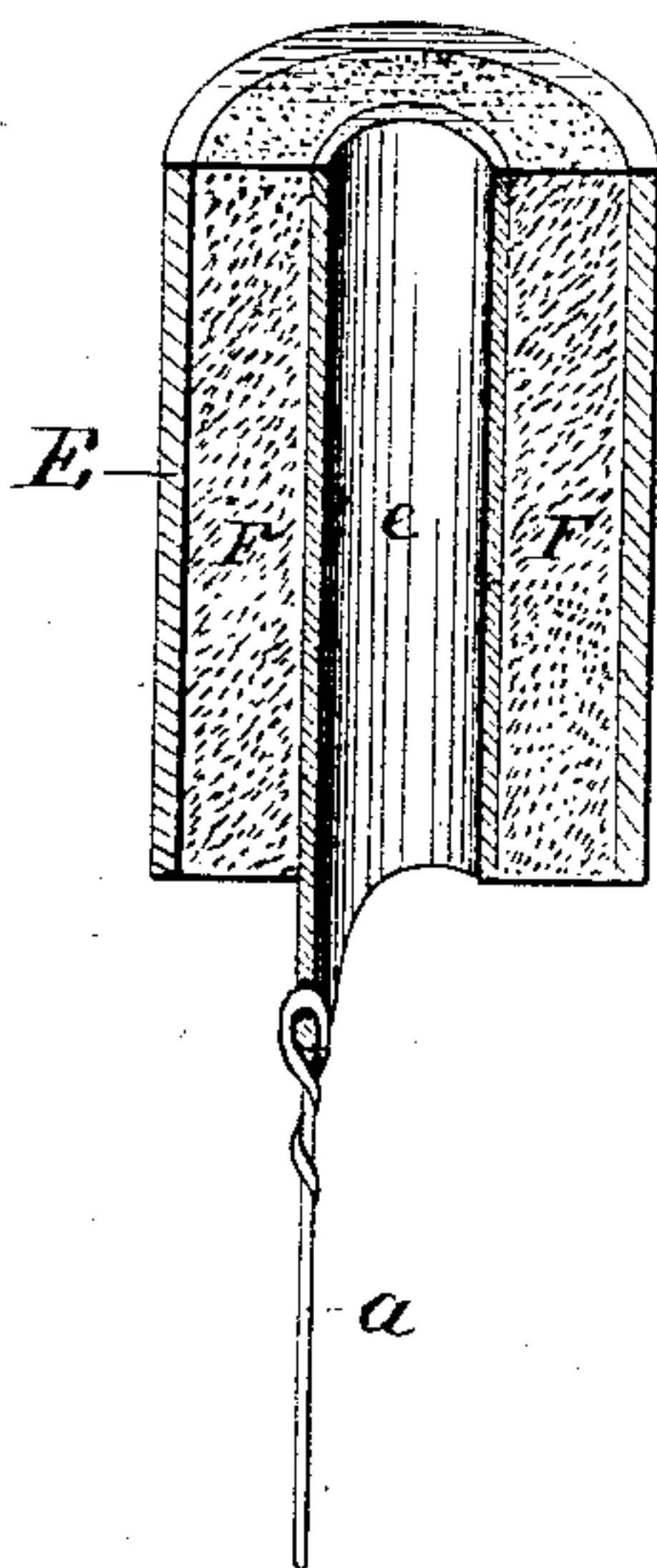


Fig. 2.



WITNESSES:

Thos. Houghton.

John C. Kemm

INVENTOR:

F. A. Copeland

BY

Manuel L.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

FREDERICK A. COPELAND, OF LA CROSSE, WISCONSIN.

FIRE-ALARM.

SPECIFICATION forming part of Letters Patent No. 286,393, dated October 9, 1883.

Application filed May 3, 1883. (No model.)

To all whom it may concern:

Be it known that I, FREDERICK A. COPELAND, of La Crosse, in the county of La Crosse and State of Wisconsin, have invented a new and useful Improvement in Fire-Alarms; 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 part of this specification, in which—

Figure 1 is a side elevation, partly in section, of my improved fire-alarm; and Fig. 2 is a central section of tube E.

Similar letters indicate like parts in both the figures.

My invention relates to improvements in electrical fire-alarms for hotels and other buildings; and it consists in the peculiar construction and arrangement of the parts, as herein- after more fully set forth, and pointed out in the claim.

In the accompanying drawings, A represents a curved arm secured to the wall of a room just over an ordinary electric push-button, B.

C represents a sleeve fitting over and adapted to slide on the curved arm A, and provided at its upper end with the weight D.

E represents a tube secured to the wall of a room near its ceiling, to the interior of which is secured by a composition, F, that melts at 150° Fahrenheit, or at a low temperature, an interior concentric tube, *e*. *a* represents a wire connecting the interior tube, *e*, with the weighted sleeve CD. Should a fire occur in the room, the cement would melt and allow the interior tube, *e*, to fall, whereby the weighted sleeve CD would be carried around by gravity on the curved arm A, so as to come in contact with the push-button B, thereby closing the circuit and giving the alarm at the office.

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

The combination, with the curved arm A and push-button B, secured to the wall of a room, of the weighted sleeve CD, wire *a*, and tubes E *e*, secured by the composition F, substantially as described, and for the purpose set forth.

FREDERICK A. COPELAND.

Witnesses:

GEO. H. GORDON,
C. R. BENTON.