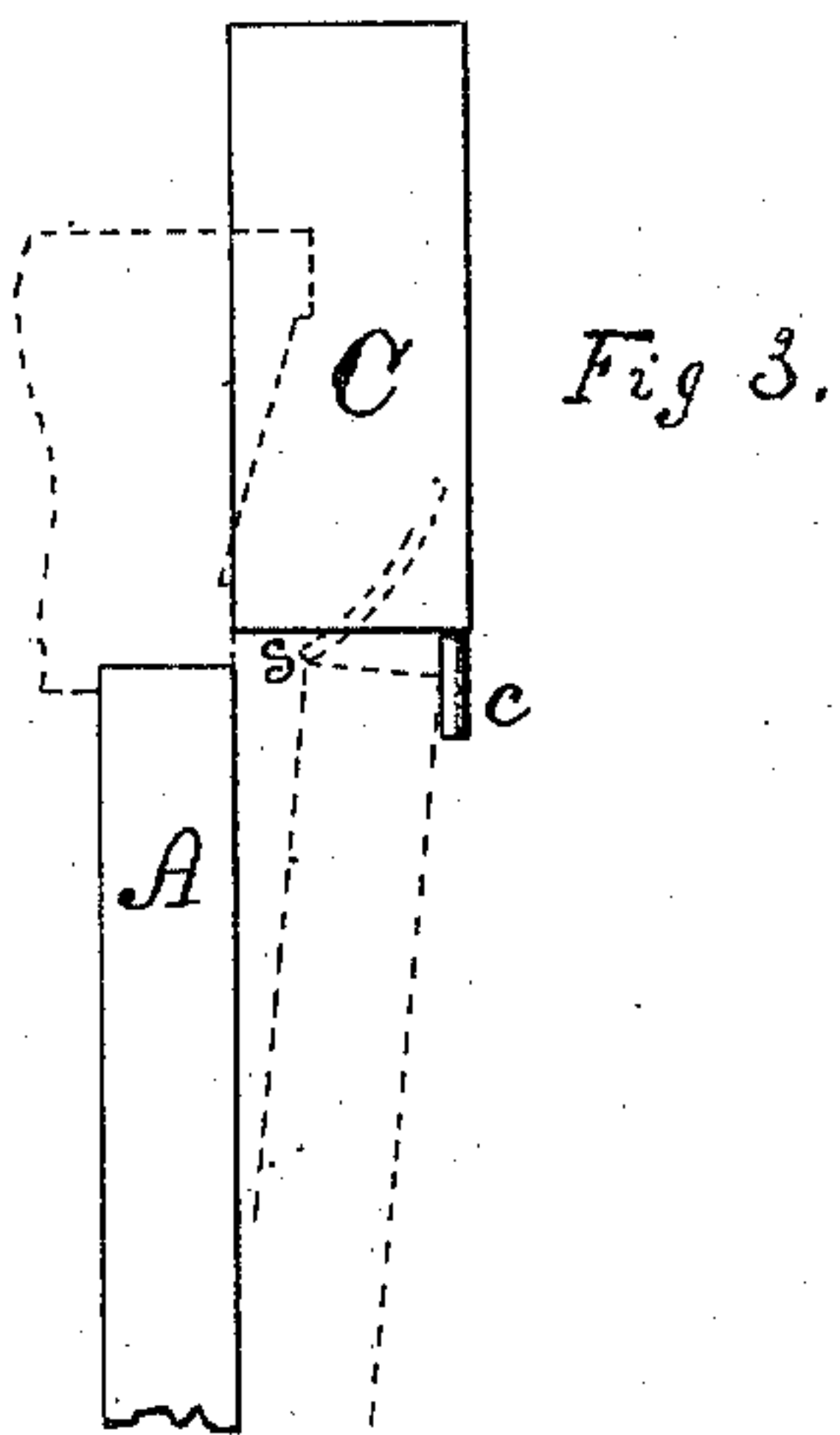
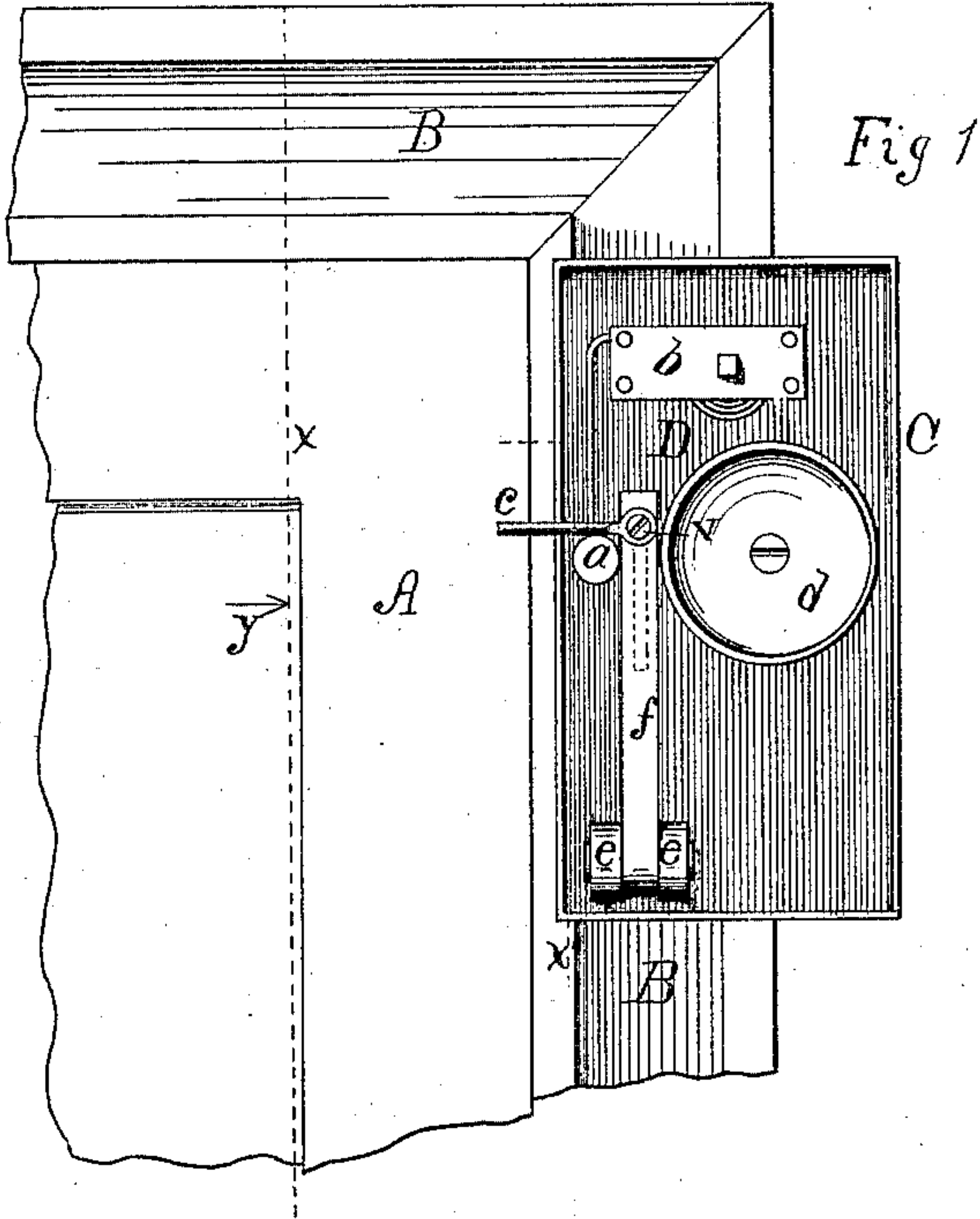
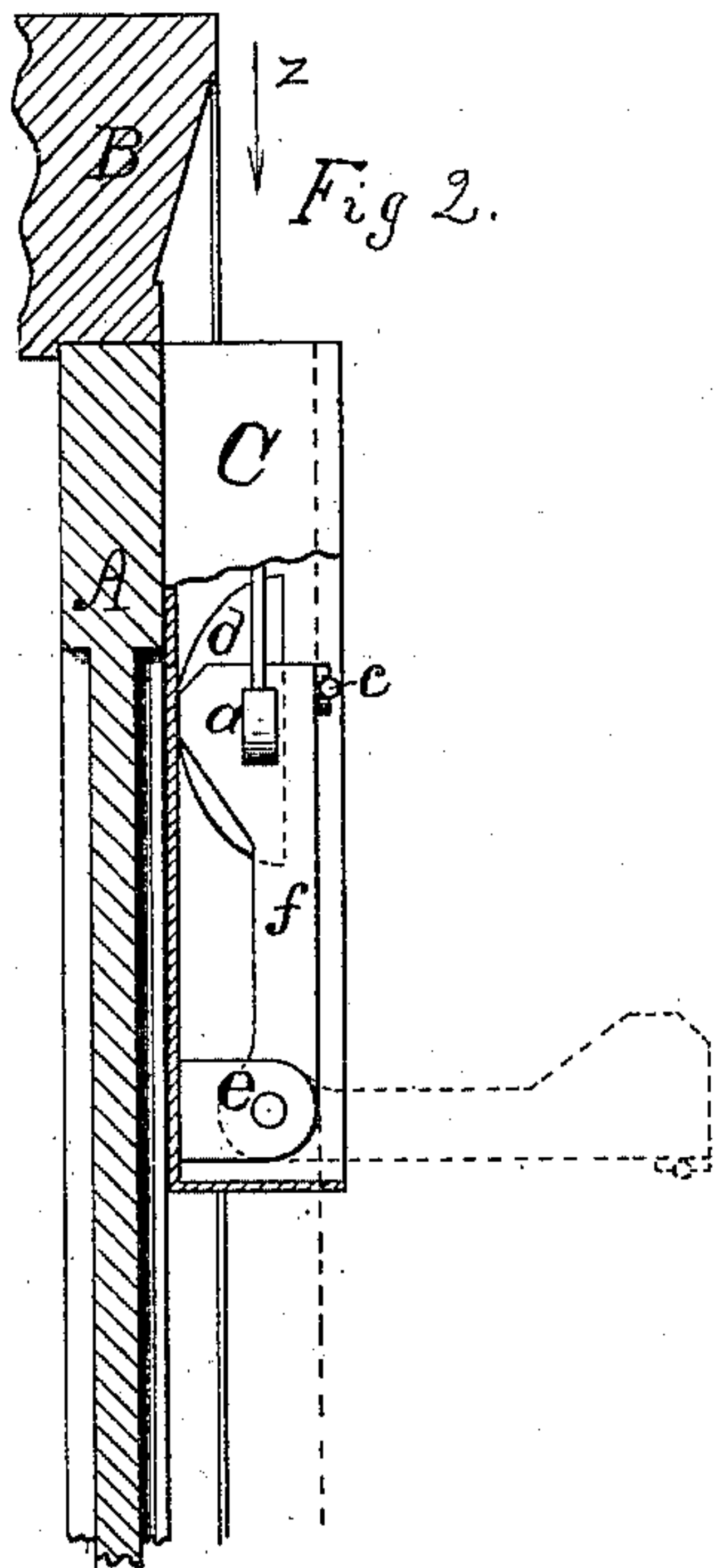


(No Model.)

T. E. JAMES.  
RINGING BURGLAR ALARM.

No. 277,738.

Patented May 15, 1883.



Attest:

L. C. McConnell.  
M. S. Phillips.

Inventor:

T. E. James.  
By O. B. Whitmore, Atty.

# UNITED STATES PATENT OFFICE.

THOMAS E. JAMES, OF ROCHESTER, NEW YORK.

## RINGING BURGLAR-ALARM.

SPECIFICATION forming part of Letters Patent No. 277,738, dated May 15, 1883.

Application filed November 22, 1882. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS E. JAMES, of Rochester, in the county of Monroe and State of New York, have invented a new and useful Improvement in Burglar-Alarms, which improvement is fully set forth in the following specification and accompanying drawings.

The object of my invention is to produce an improved burglar-alarm to be connected with doors of buildings, which shall be set in motion by the opening of the door to which it may be connected; and it consists in parts and their operations shown in drawings, and hereinbelow fully explained.

Referring to the drawings, Figure 1 is a front elevation of my improved burglar-alarm attached to the casing of a door in position to be operated by the latter; Fig. 2, a side elevation of the same, viewed as indicated by the arrow *y* in Fig. 1, the door and casing being sectioned on the dotted line *x*, and the case holding the alarm mechanism sectioned on the dotted line *x'* in Fig. 1; Fig. 3, a view of the same, looking from above, as indicated by arrow *z* in Fig. 2, and showing, further, the manner in which the door operates the alarm.

Referring to the parts, A is a door, and B the inside casing of the same.

C is a case or box, inclosing the alarm mechanism, which may be made ornamental and of any style to suit the taste.

D is the alarm mechanism, which consists of the driving part *b*, hammer *a*, and gong *d*, that shown being the common alarm device used in clocks. The case C, holding the alarm mechanism, is designed to be secured to the casing B on the inside of the doorway at some convenient point up out of the way, as shown.

*f* is a separating-piece or separator, by means of which the hammer *a* of the alarm is held away from the gong, and while held away, as shown, the motion of the driving part *b* of the mechanism is stayed, and the alarm kept silent. The separator *f* is pivoted at its lower end between lugs *e e*, secured to the case C, by means of which it may occupy a vertical position, as shown in full lines, or be displaced from between the hammer and gong by falling to a position shown in dotted lines in Fig. 2. If the spring of the driving part *b* be wound up and the separator withdrawn from between the

hammer and gong by any means, the former is immediately set in motion by the force of the spring and caused to strike the latter and sound an alarm. A spring-arm, *c*, is secured to the separator *f*, near its upper end, by means of a screw, *v*, and caused to project at right angles to said separator over the edge of the case C, and in the way of the door as the latter is swung open. By means of the door coming in contact with the spring-arm *c*, as shown in dotted position in Fig. 3, the separator *f* will be carried away from between the hammer and gong and the alarm will be set off.

When the alarm is not in use the spring-arm *c* may be swung around upon the pivot-screw *v*, and caused to lie parallel with the separator, as shown in dotted position, wholly within the case C. The upper end of the separator is of such a thickness as to enter easily between the hammer and gong when the former is lifted away from the latter by the mechanism operating said hammer, and when the spring is wound up preparatory to setting the alarm, as above stated, it is allowed to act upon the hammer until the latter is raised from the gong sufficiently to permit the separator to be inserted between them for the purpose stated.

A simple cover for the case (not shown) protects the alarm mechanism from the dust, and from receiving injury from other causes, a slot being provided in the same, through which to allow of the separator to fall away from the gong, as above stated.

The arm *c* is purposely made to bend, so that should the door by accident be swung against it in the other direction while being closed it would yield and let the door pass, as shown in dotted position at *s*, Fig. 3, without injury to the alarm.

It will be understood that my improved alarm device herein described may be easily attached to a window-sash by any person possessing ordinary ingenuity without further invention, so as to be operated by the raising of said sash.

It will be understood that the alarm-case C may be located at any convenient point near the door or window, or in an upper or distant room of the building, with a wire connection between said door or window and the separator *f*, so that the latter may be displaced, as



above described, when the door or window is disturbed from without, causing the alarm to sound.

Burglar-alarms consisting of a hammer and  
5 gong, with actuating mechanism for the hammer inclosed in a case or box and placed to be set in motion by an opening door, are not new, and such I do not claim, broadly.

I claim as my invention—

10 In a burglar-alarm, in combination with the

door A, the alarm mechanism D, consisting of the driving part *b*, hammer *a*, and gong *d*, and the pivoted separator *f*, for the hammer and gong, provided with the adjustable spring-arm *e*, substantially as shown and described.

T. E. JAMES.

Witnesses:

E. B. WHITMORE,

L. C. McCONNELL.