

J. T. Garlick,

Hinge.

N^o 16,272.

Patented Dec. 23, 1856.

Fig. 1.

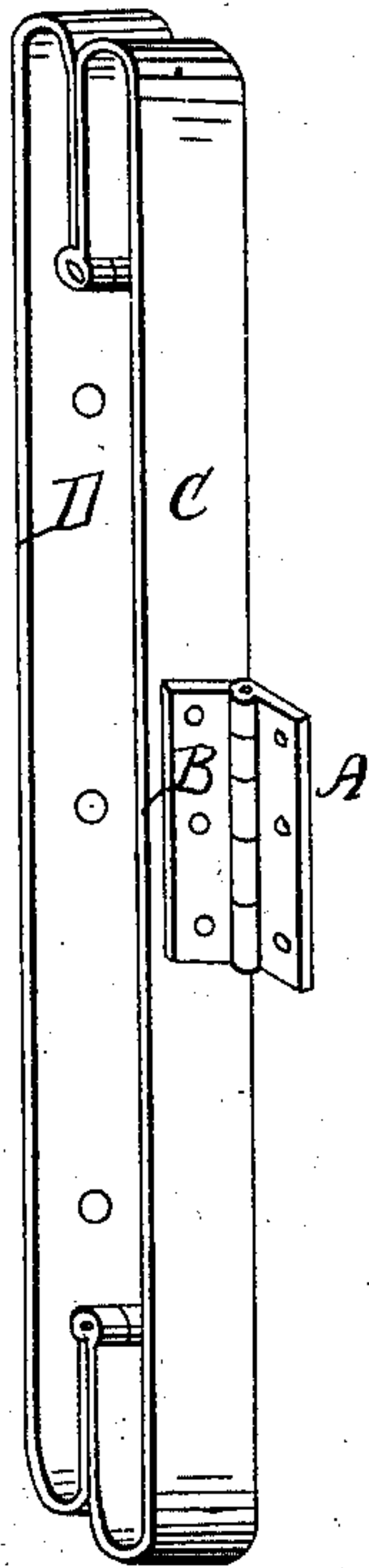
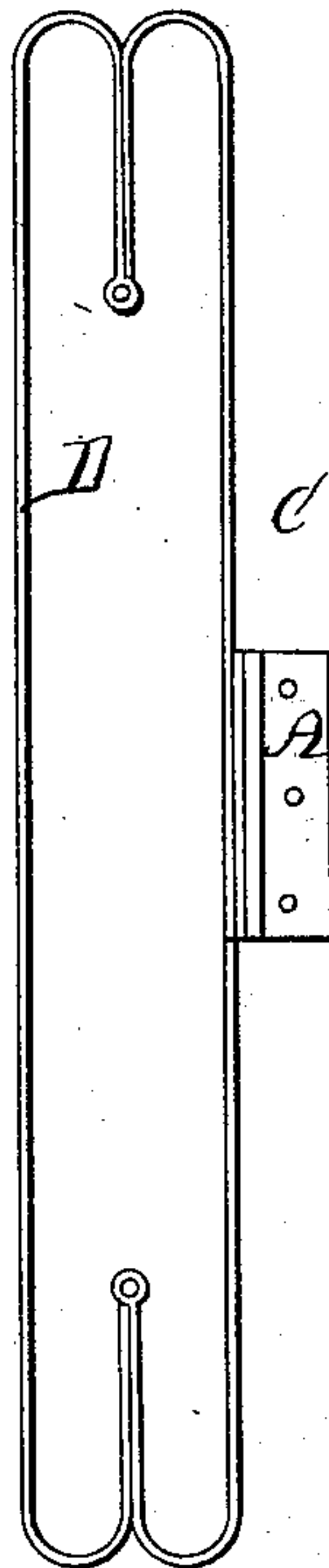


Fig. 2.



Witnesses.

A. C. Hays
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Inventor:

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UNITED STATES PATENT OFFICE.

JOHN T. GARLICK, OF NEW YORK, N. Y.

SPRING-HINGE.

Specification of Letters Patent No. 16,272, dated December 23, 1856.

To all whom it may concern:

Be it known that I, JOHN T. GARLICK, of the city, county, and State of New York, have invented a new and useful spring-hinge particularly adapted to be used on safes, chests, trunks, and boxes that require to be made proof against the admission of water, vapor, or dampness, as well as on doors, covers, and shutters that require at times to be closed tight against the admission of flame or heated vapor; and I do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, in which—

Figure 1 is a perspective and Fig. 2 a plan view of my improvement as intended to be applied to the door of a safe.

A is one leaf and B the other, of an ordinary butt-hinge, of which the former is to be secured to the casing of the safe, and the latter to the leaf C of the spring.

C and D are two leaves of a spring made of steel or other elastic metal of sufficient strength to support and uphold the door to which it is attached, and yet sufficiently elastic to answer the purposes required of it as hereafter mentioned. The leaf C is attached to the leaf B of the hinge, and the leaf D is secured to the face of the door by screws, rivets, or other fastenings. The number of the spring-hinges necessary to be attached to the door will vary with the height and weight of it. Where one would effect its purpose on a small door two or more would require to be used on a large one to divide its weight between them and secure their proper action—or the spring may be made of such length that two or more pairs of hinges may be attached to it

and answer the same purpose as the same number of separate hinges.

This improvement is particularly adapted to be used on the doors of safes or the covers of chests, trunks or boxes that require to be closed perfectly tight to prevent the admission of water, dampness or vapor to the interior of the articles named, and which require to be packed by some intervening substance placed between the door or cover and the body of the article for that purpose, as the hinge or hinges can be so placed and attached that for ordinary use they will support the door or cover to which it or they are secured and keep it at a sufficient distance from the body to prevent the wear and destruction of the interposed packing at or near the point of the attachment of the door to the body, and yet, to have sufficient elasticity to allow the door or cover to be forced into contact with the packing and form a perfectly tight joint for the purposes named in case the same should be required. It is also adapted to be used on the doors, shutters or covers of buildings to enable them to be closed tightly to prevent the admission of flame or heated vapor to the interior of the building.

I do not claim the use of a hinge with springs attached thereto so that the article to which it is attached may be adjusted to different distances from it, but

What I do claim as my invention and desire to secure by Letters Patent, is—

A hinge or series of hinges attached to a double-leafed spring, in the manner herein described and for the purposes set forth.

JOHN T. GARLICK.

Witnesses:

A. C. HOYT,
FRANCIS S. LOW.