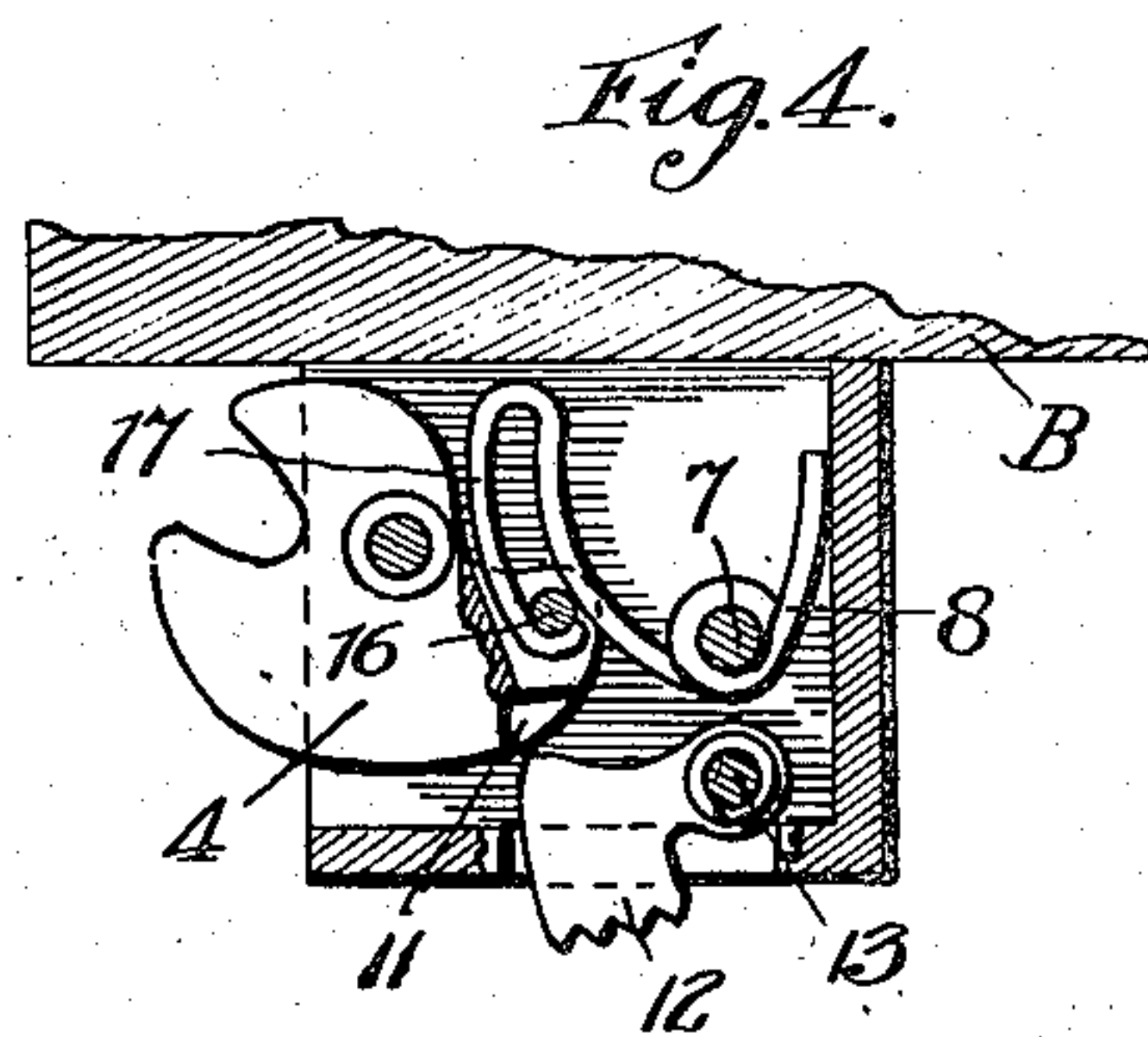
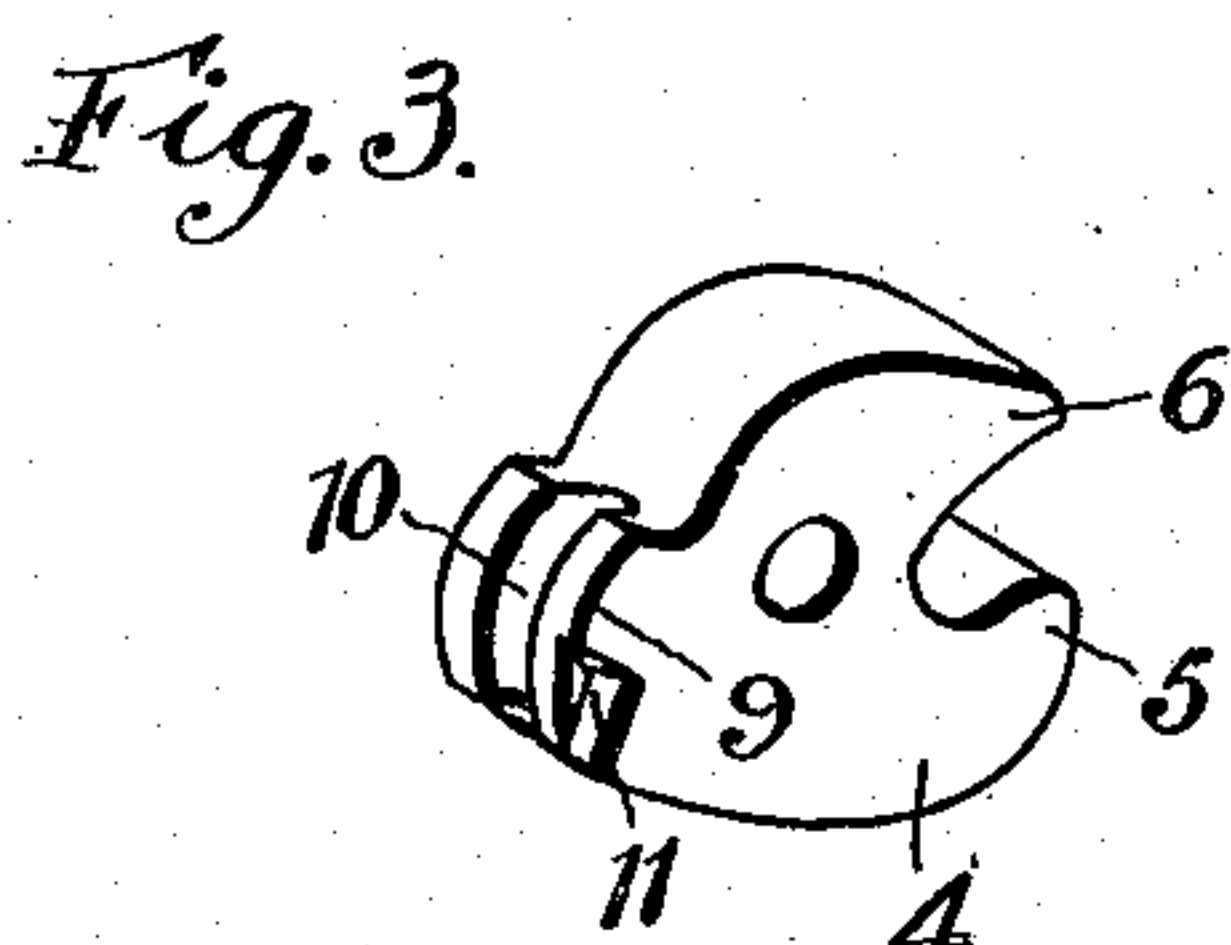
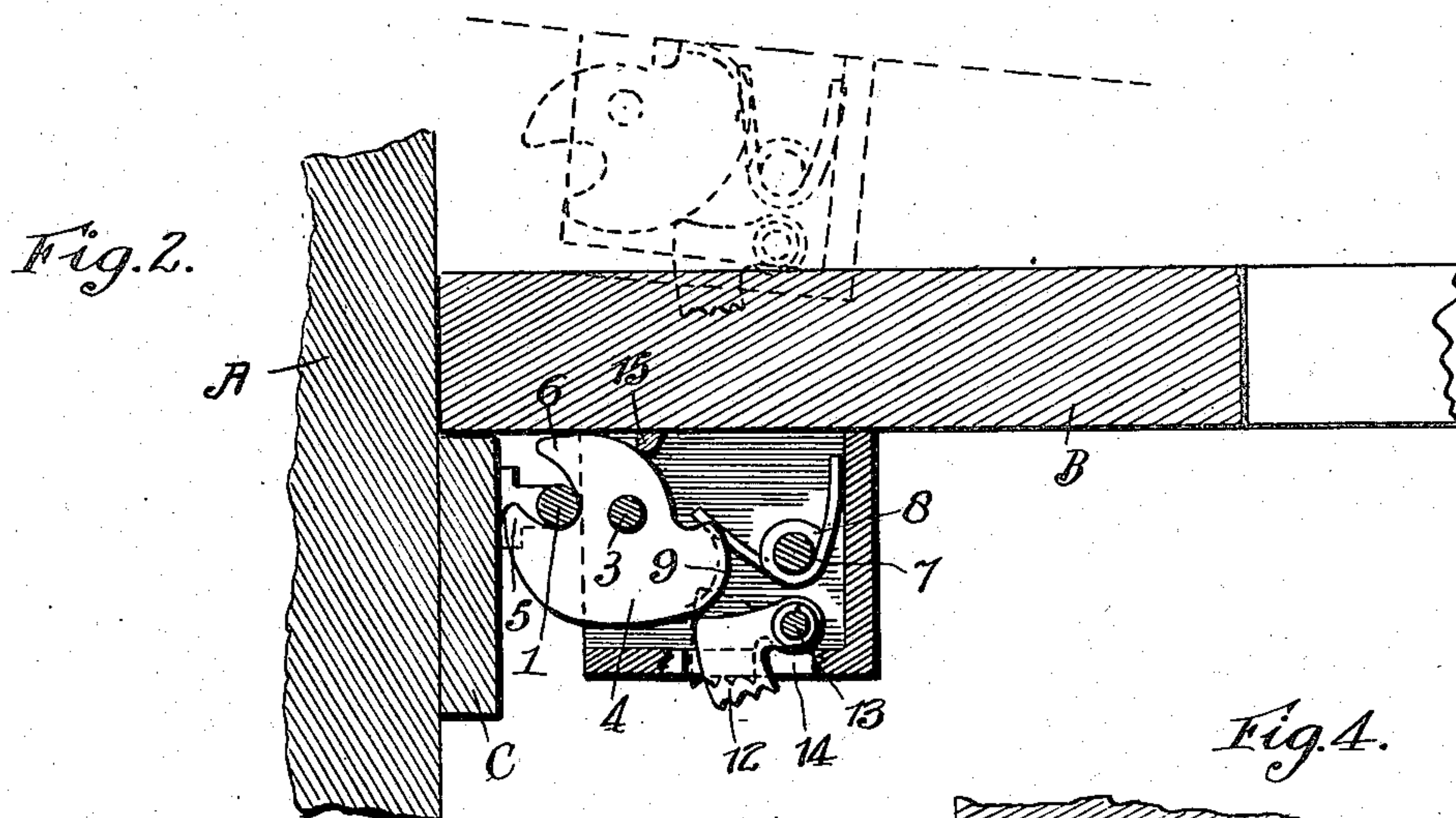
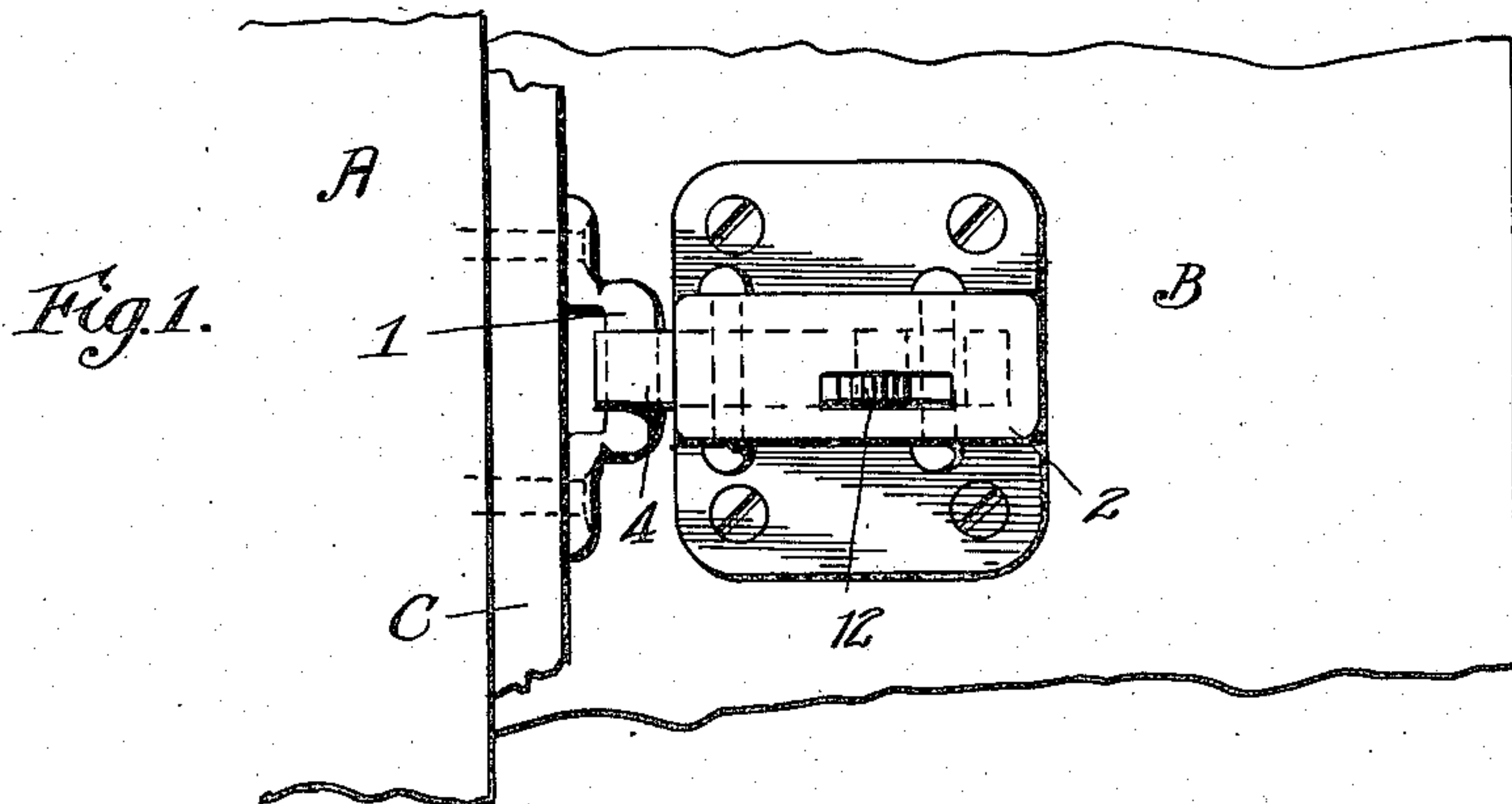


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DOOR FASTENER.
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930,534.

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UNITED STATES PATENT OFFICE.

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DOOR-FASTENER.

No. 930,534.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ALVIN L. Cox, citizen of the United States, residing at Elizabethtown, in the county of Hardin and State of Kentucky, have invented certain new and useful Improvements in Door-Fasteners, of which the following is a specification.

My invention relates to door fasteners, and the object thereof is to provide a simple and inexpensive device, which, in its operation, will prevent opening of the door, except by a direct strong push or pull thereof, and which, when so desired, may be converted into a lock.

Broadly my invention resides in the provision of a door casing with a keeper, and a door with a rotative member to contact with said keeper, and to rotate into, and out of, engagement therewith, when the door is opened and closed, and also in providing such member with a comparatively strong spring to tension rotation thereof in one direction, corresponding to the opening of the door, and with a locking member to prevent rotation thereof and maintain it in engagement with the keeper.

In the accompanying drawings, illustrating my invention, and forming a part of this specification, and wherein like numerals are used to designate like parts throughout the several figures, Figure 1 is an elevation of a portion of a door and the casing, illustrating my improved fastener applied thereto. Fig. 2 is a horizontal sectional view taken therethrough. Fig. 3 is a perspective elevation of the fastening member, and, Fig. 4 is a horizontal sectional view through a portion of a door, and a fastener attached thereto, and forming a slightly modified form of my invention.

In the embodiment of my invention, as illustrated in Figs. 1 and 2, I provide the casing A, of a door B, with a keeper 1, attached vertically upon the casing strip C, against which the outer edge of the door B abuts when the same is closed. The keeper 1 is of the U-shaped form, having its ends secured to the strip C whereby to hold its body portion spaced therefrom. Mounted upon the inner surface of the door B, is a rectangular frame 2, open at its side facing the vertical edge of the door, and provided with a transverse pin 3, upon which is mounted an operating member 4, extending outwardly through the open side of said

casing, and provided with a cut out portion forming the keeper engaging fingers 5 and 6 upon each side thereof, and adapted to receive the keeper 1 therein when the door B is closed as shown in Fig. 2. The casing 2 is provided with a transverse pin 7, rearwardly of the pin 3 upon which the operating member 4 is rotatable, upon which pin 7 is coiled a spring 8 having one end thereof bearing upon the inner surface of one wall of said casing and having its opposite end bearing against the rear cam edge 9, of said operating member 4, which edge 9, as shown in Fig. 3, is provided with a central slot 10, to prevent accidental displacement of the end of spring 8 bearing thereupon. Thus upon the movement of the door keeper from the closed position shown in Fig. 2, the operating member 4 is rotated upon the pin 3, by contact between the keeper 1 and the engaging finger 5 thereof, against the steady tension of the spring 8, whereby the door is prevented from accidental opening. The opposite movement, to close the door, finds the operating member 4 in the position shown in dotted lines in Fig. 2, owing to the rotation thereof during the opening movement, and upon engagement of the keeper 1 with finger 6, the rotative movement of said member is much quicker than the rotative movement thereof when the door is open, inasmuch as the same is locked against the tension of spring 8. The rear cam edge of the operating member 4 is provided with a V-shaped cut out portion 11, which is adapted for the reception therein of a portion of a locking member 12, pivotally mounted upon a transverse pin 13, within the casing 2, and extending through a slot 14 in the wall thereof, in order that the same may be pressed into engagement with the said cut out portion 11; when the member 4 is in engagement with the keeper 1, as shown in Fig. 2, to prevent movement thereof and lock the same and the door B. In this form of my invention, the rotative movement of the operating member 1 is limited in both directions, by means of a strip 15, arranged transversely between the walls of the casing 2, and parallel with the pin 3.

In the form of my invention illustrated in Fig. 4, the rear cam edge of the operating member 4 is provided with a central slot, somewhat deeper than the slot 10, to guide the engaging end of spring 8, in the form

shown in Figs. 1 and 3, and is further provided with a transverse pin 16, extending through the said slot, and is adapted for the reception of an extension 17 of the engaging end of the spring 8, which extension is bent back upon said engaging end thereof and forms the limit of rotative movement of said member 4.

Having fully described my invention, I claim:

1. In a door fastener, the combination of a keeper, a rotative member for engagement therewith provided with a cut out portion, a spring member for controlling the rotative movement of said rotative member, and a swinging locking member for engagement

within said cut out portion in one position of said rotative member to lock the same from rotative movement, substantially as described. 20

2. In a door fastener of the character described, a rotative operating member, and a spring member controlling rotative movement of said rotative member and constituting a stop to limit such movement, substantially as described. 25

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

ALVIN L. COX.

Witnesses:

JAMES L. CRAWFORD,
MYRON G. CLEAR.