

(No Model.)

H. BORCHARDT.

DETACHABLE MAGAZINE FOR MAGAZINE GUNS.

No. 273,448.

Patented Mar. 6, 1883.

Figure 1.

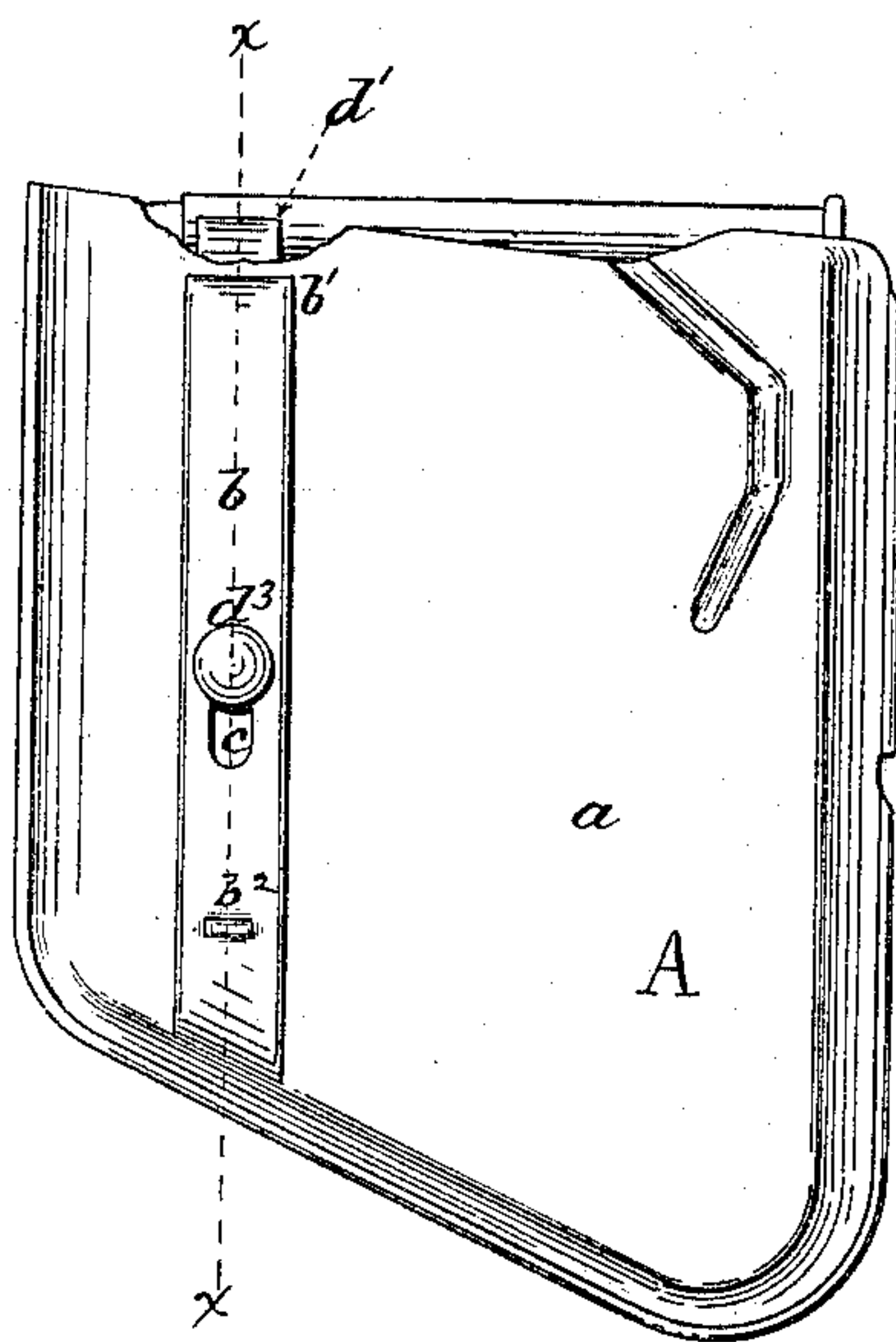


Figure 2.

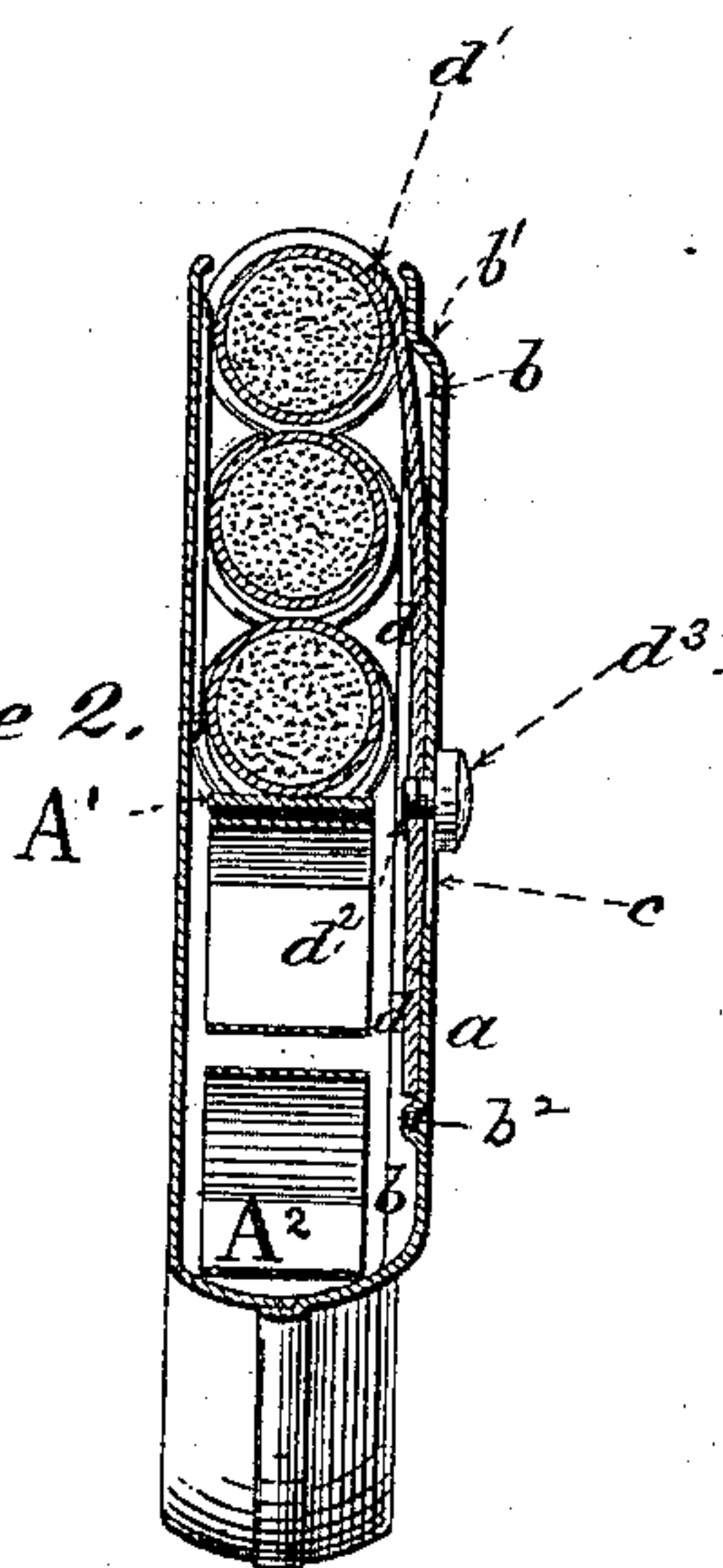
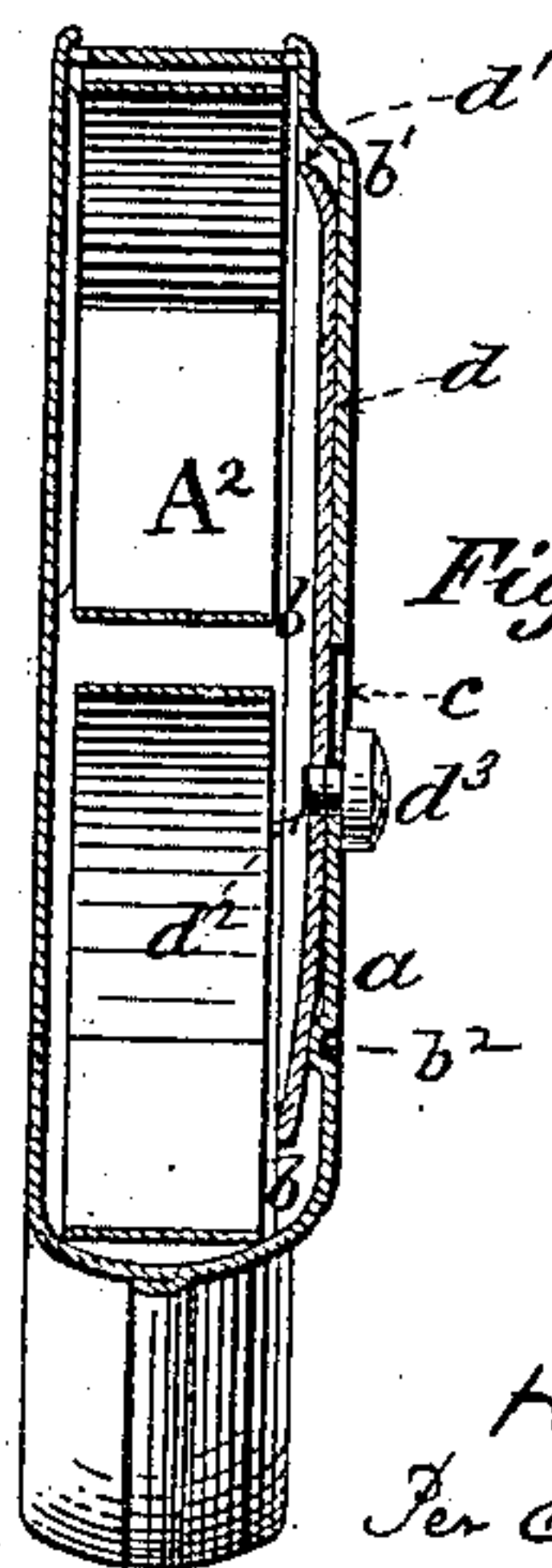


Figure 3.



Witnesses:

M. L. Adams.

W. F. Heath

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UNITED STATES PATENT OFFICE.

HUGO BORCHARDT, OF PEEKSKILL, ASSIGNOR TO JOSEPH W. FRAZIER,
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DETACHABLE MAGAZINE FOR MAGAZINE-GUNS.

SPECIFICATION forming part of Letters Patent No. 273,448, dated March 6, 1883.

Application filed November 9, 1882. (No model.)

To all whom it may concern:

Be it known that I, HUGO BORCHARDT, of Peekskill, in the State of New York, have invented a certain Improvement in Adjustable
5 Devices for Holding Cartridges in Detachable Cartridge-Magazines, of which the following is a specification.

My improvement is especially applicable to the kind of box or magazine for holding cartridges in which the cartridges lie side by side, and from the mouth of which they are ejected by sidewise movement under the influence of an expanding spring contained in the bottom of the box.

15 My invention consists in holding the cartridges in the box by means of a finger or stop, which can be so moved as to partially embrace or bear upon the shank of the uppermost cartridge, and which is provided with a stud projecting from the box, to which stud force can be applied to move the finger in either direction, and which is so placed that in the act of attaching the cartridge-box to the gun the impact of the stud upon a part of the gun with-
20 draws the finger or stop, and thereby releases the cartridges to the action of the ejecting-spring, by which they are fed successively into the receiver of the gun.

The accompanying drawings of a cartridge-box illustrating my invention are as follows: Figure 1 is a side elevation of the box. Fig. 2 is a transverse section through the line $x x$ on Fig. 1, showing the finger bearing upon the uppermost cartridge; and Fig. 3 is a similar
35 section, showing the finger withdrawn from the path of movement of the cartridges.

The drawings represent a cartridge-box, A, of the trapezoidal form shown and described in Letters Patent of the United States No. 221,328, dated November 4, 1879, granted to James Lee, for improvement in magazine fire-arms, and in Letters Patent of the United States No. 254,453, dated March 7, 1882, granted to me, for an improvement in maga-
45 zines for fire-arms.

The box contains the usual movable spring-bottom, A', upon which the lowermost cartridge rests, and which is fastened to the upper leaf of the usual expanding zigzag spring, A².

50 My finger or stop for holding in the cartridges is preferably arranged within the box,

and to that end one of the side walls, a , of the box has formed upon its interior surface the vertical recess or groove b , below which is a slot, c , which is in line with the groove. 55

Deposited in the groove b is the finger d , which is a metallic strip having the inwardly-curved upper end, d' . At some distance from its lower end there is secured to the finger the rivet or stud d^2 , the shank of which projects through the slot c in the side of the box, and has upon its outer end the head or collar d^3 . 60

The finger d slides longitudinally, and the slot c is long enough to afford sufficient range of motion to the finger to enable it to occupy 65 at the ends of its motions, respectively, the two positions shown in Figs. 2 and 3. In its highest position its curved end bears upon the shank of the uppermost cartridge, as shown in Fig. 2. This position of the finger is acquired 70 because the upper end wall, b' , of the groove b constitutes a shoulder extending across the path of motion of the finger, and by collision with this shoulder the curved upper end of the finger, as it moves up, is forced out of the groove 75 and toward the opposite wall of the box. When the finger is withdrawn from its highest position it springs into the groove b , occupying the position shown in Fig. 3.

The collar d^3 , upon the outer end of the stud, 80 may be pushed either way by hand, if desired; but by reason of its projection from the box it is adapted to be brought into collision with a part of the gun during the act of attaching the box to the gun. By such collision, during 85 the time while the box is being pushed into its seat in the gun, the finger d is withdrawn into the groove b , thereby releasing the cartridges contained in the box to the action of the ejecting-spring A², by means of which they are suc- 90 cessively supplied in the usual manner for the reloading of the gun.

In addition to the shoulder b' at the upper end of the groove b , another shoulder, b^2 , is formed across the lower part of the groove for 95 the purpose of bearing upon and opposing frictional resistance to the lower part, d^4 , of the finger d during the downward motion of the finger, and also for the purpose of acting as a frictional stop against which the lower 100 end of the finger d bears when the finger is fully elevated, so that the finger cannot be

slid down unless a prescribed amount of force is applied to it to overcome the frictional resistance of the shoulder b^2 . A further effect of the shoulder b^2 is to slightly tilt the lower
5 portion of the finger outward from the groove, and thereby to give to the upper portion of the finger a tendency to spring into the groove out of the way of the cartridges.

I claim as my invention—

The movable finger d , provided with the stud d^3 , projecting through the slot c in the side of the box, in combination with the shoulder b^2 , as and for the purpose set forth.

HUGO BORCHARDT.

Witnesses:

M. L. ADAMS,
ASA FARR.