

(No Model.)

S. BAKER.  
CARTRIDGE IMPLEMENT.

No. 248,837.

Patented Nov. 1, 1881.

Fig. 1

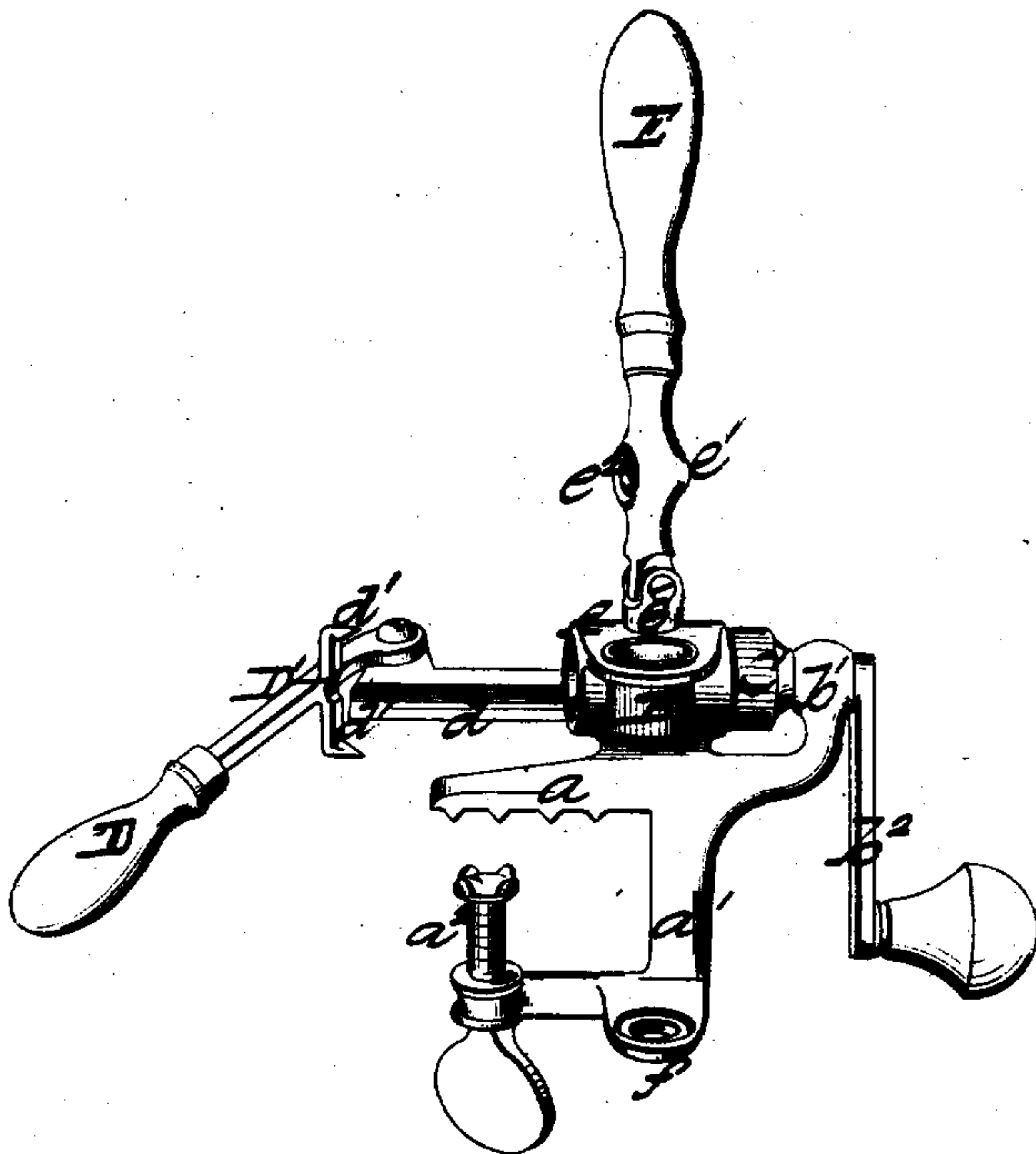


Fig. 5



Fig. 2

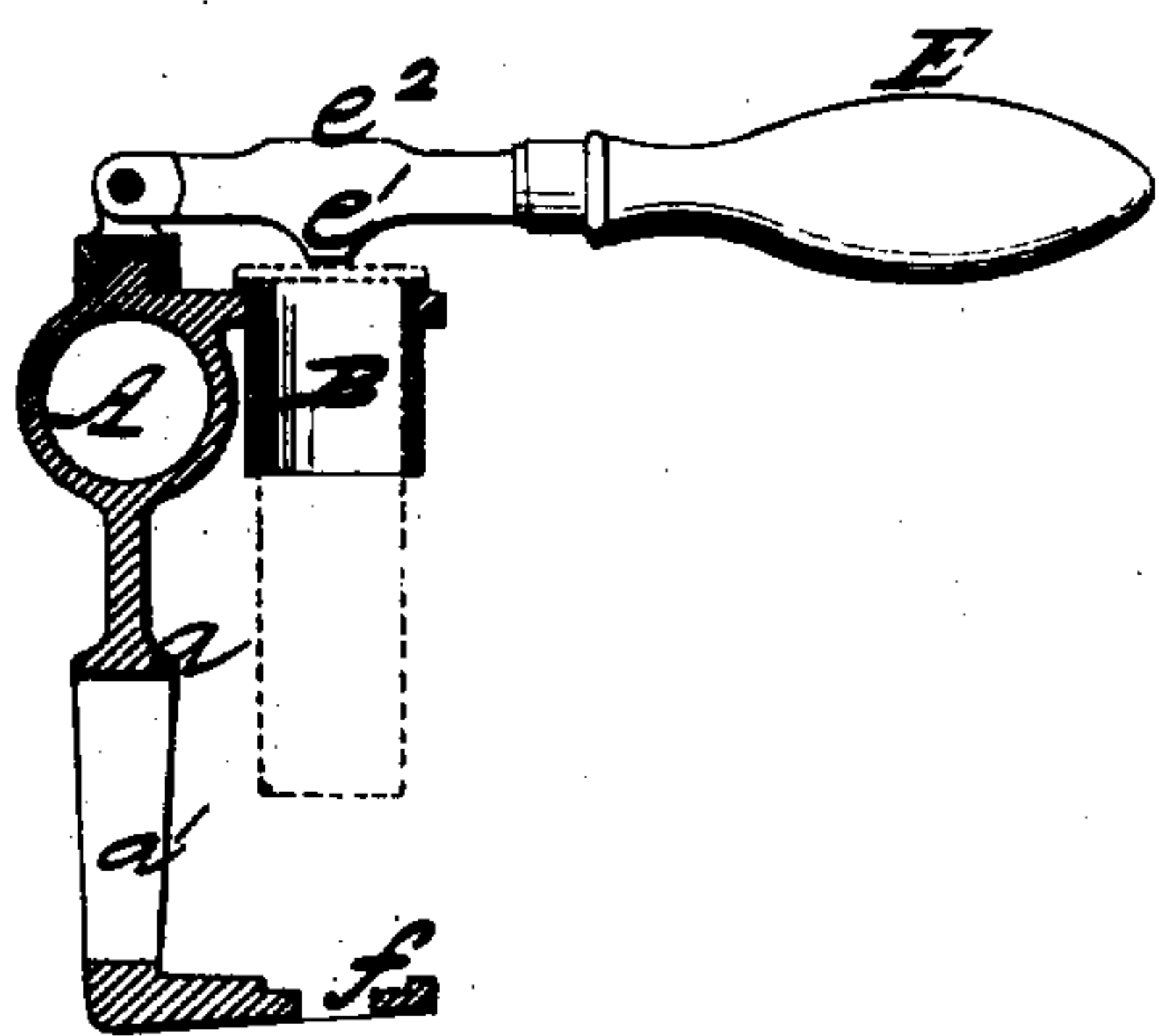


Fig. 3

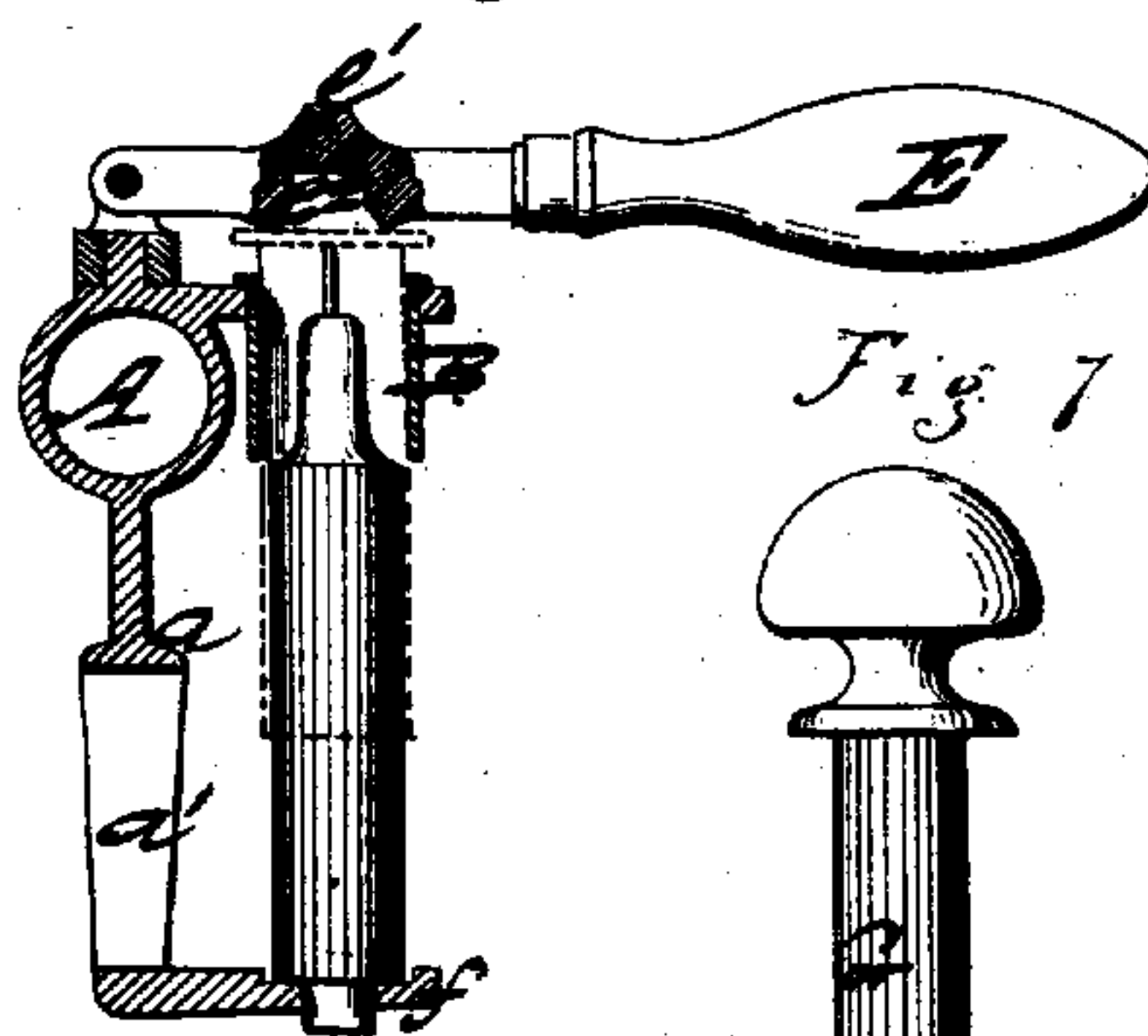


Fig. 7



Fig. 4

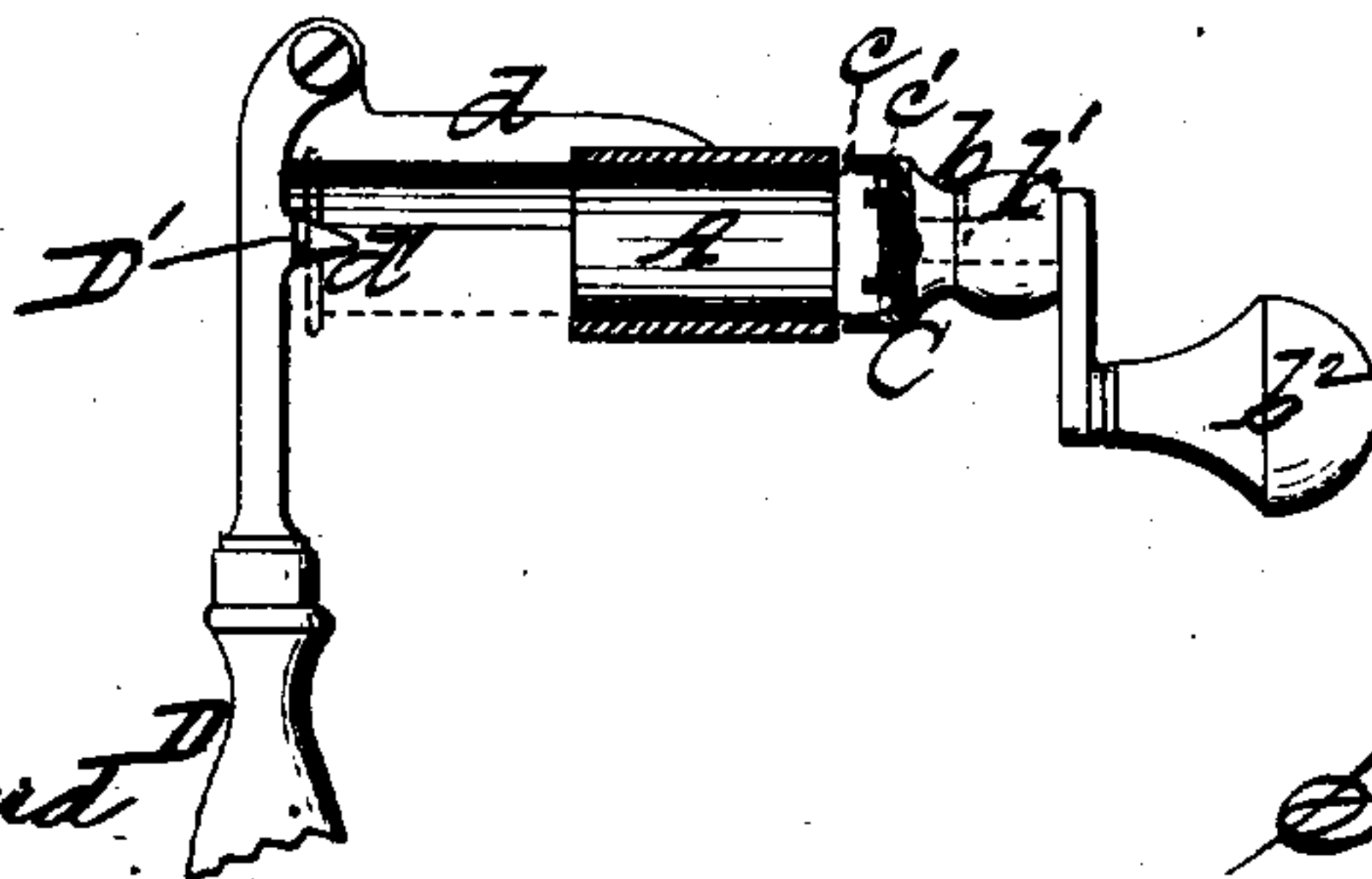


Fig. 6



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# UNITED STATES PATENT OFFICE.

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## CARTRIDGE IMPLEMENT.

SPECIFICATION forming part of Letters Patent No. 248,837, dated November 1, 1881.

Application filed September 2, 1881. (No model.)

*To all whom it may concern:*

Be it known that I, SAMUEL BAKER, a citizen of the United States of America, residing at New Haven, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Capping and Decapping Cartridges; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved capping and decapping device. Fig. 2 is a sectional view, showing the capping operation. Fig. 3 is also a sectional view, partly in side view, showing the decapping operation. Fig. 4 is a similar view, showing the crimping of the cartridge. Fig. 5 is a detail view of the punch used in the decapping process. Fig. 6 is a view looking into the crimping device, and Fig. 7 is a view of a simple piston or rammer for use in connection with filling the cartridge.

This invention has relation to improvements in devices for capping and decapping cartridges and for crimping the wrapper of the cartridge, or rather its cylinder, having for its object to effect these several operations in an efficient and expeditious manner.

The nature of this invention consists in combining in one instrument a horizontal hollow cylinder, an upright cylinder or tube, a revolving crimping device, a swiveled lever having on one side a hollowed-out stud and on the other a recess or hollow and a holding device, in addition to being capable of adjustment in position for use, and receiving or holding a cylinder or punch to aid the decapping operation, substantially as hereinafter more fully set forth.

In carrying out my invention I employ a short horizontal cylinder, A, hollow, and cast with a clamping-jaw, *a*, and an L-shaped arm, *a'*, extending down and having its horizontal portion projecting under the clamping-jaw *a*.

In an eye in the horizontal portion of the arm *a'* works a thumb clamp-screw, *a<sup>2</sup>*, for adjusting the device or instrument in position upon a support for use.

Cast with a flange projecting from the top of the cylinder A is a vertical cylinder or tube, B.

C is a chambered circular head fixed upon one end of a shaft, *b*, bearing in a support, *b'*, cast with the arm *a'*, and provided with a handle or crank, *b<sup>2</sup>*, for revolving the head C.

Cast concentrically with the outer rim or flange, *c*, of the head C, and upon its inside, is an annulus or ring, *c'*, which, with the flange *c*, whose inner surface is tapered toward the closed end of the head, as seen in Fig. 4, constitutes the crimper.

Upon an arm or support, *d*, cast with the cylinder A or jaw *a*, is a holding-lever, D, having a vertical or cross piece, D', provided at its extremities with cleats *d'*.

E is a second lever, pivoted to a stud, *e*, swiveled upon the cylinder A, thus permitting the lever to have, in addition to its usual movement, a revolving movement, so as to allow either of two sides to be presented downwardly, the object of which will appear hereinafter. On one side the lever E is provided with a hollowed or rounded-out stud, *e'*, adapted to fit upon the head of and insert the cap into the previously prepared cartridge-head, while on its other side it is provided with a recess or countersink, *e<sup>2</sup>*, which is brought into use during the decapping operation, presently to be explained. To support the punch F aiding the latter operation, as seen in Fig. 3, the arm or bracket *a'* is provided with a socketed arm, *f*.

Referring to Fig. 2, it will be observed how the capping operation is performed. The cartridge is inserted into the tube B, its flanged head resting upon the top edge of the tube B. The lever E is then adjusted so as to present its rounded-out stud *e'* downward and upon the head of the cap, inserted into the metallic or headed portion of the cartridge, previously prepared to receive the cap, and by then pressing down upon the lever sufficiently to sink it the required depth the aforesaid operation will be effected.

Consulting Fig. 3, the decapping operation will be explained. The cartridge, unloaded, being inserted in the same tube B, and the punch F seated in the socketed arm *f*, with its slender metallic point presented against the under side of the cap of the cartridge, the lever is adjusted with its countersink *e<sup>2</sup>* next to the cap of the cartridge, and by pressing down



upon the lever it will be seen that the punch will force out the cap, decapping the cartridge.

The crimping process will be understood by referring to Fig. 4. The filled cartridge is inserted at the filling end into the horizontal cylinder A, against the annular flanged head C, between its flanges  $c\ c'$ , and the lever D adjusted against the opposite end or head of the cartridge, and by forcing inwardly upon the cartridge-shell, while simultaneously turning the crank or handle  $b^2$  of the head C, revolving the latter, the filling end of the cartridge will be folded inwardly upon itself, thus effecting the crimping of the cartridge. For ramming the cartridge after filling I employ a piston or rammer, G.

I claim and desire to secure by Letters Patent—

1. The casting having the cylinder A, provided with the vertical tube or cylinder B, and the socket  $f$ , combined with the lever D D',

revolving chambered head C  $c\ c'$ , and the swiveled lever E, having the stud  $e'$  and cavity or recess  $e^2$ ; substantially as and for the purpose set forth.

2. The casting having the cylinder A, provided with the vertical tube or cylinder B, jaw  $a$ , and arm  $a'$ , provided with the clamp-screw  $a^2$ , and the socket  $f$ , combined with the lever D D', pivoted to an arm,  $d$ , of the said casting, revolving chambered head C, having the flanges  $c\ c'$ , and supported in arm  $b'$  of said casting, and the swiveled lever E, having the stud  $e'$  and cavity or recess  $e^2$ , substantially as and for the purpose specified.

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

SAMUEL BAKER.

Witnesses:

GEORGE TERRY,  
D. P. RAMSDELL.