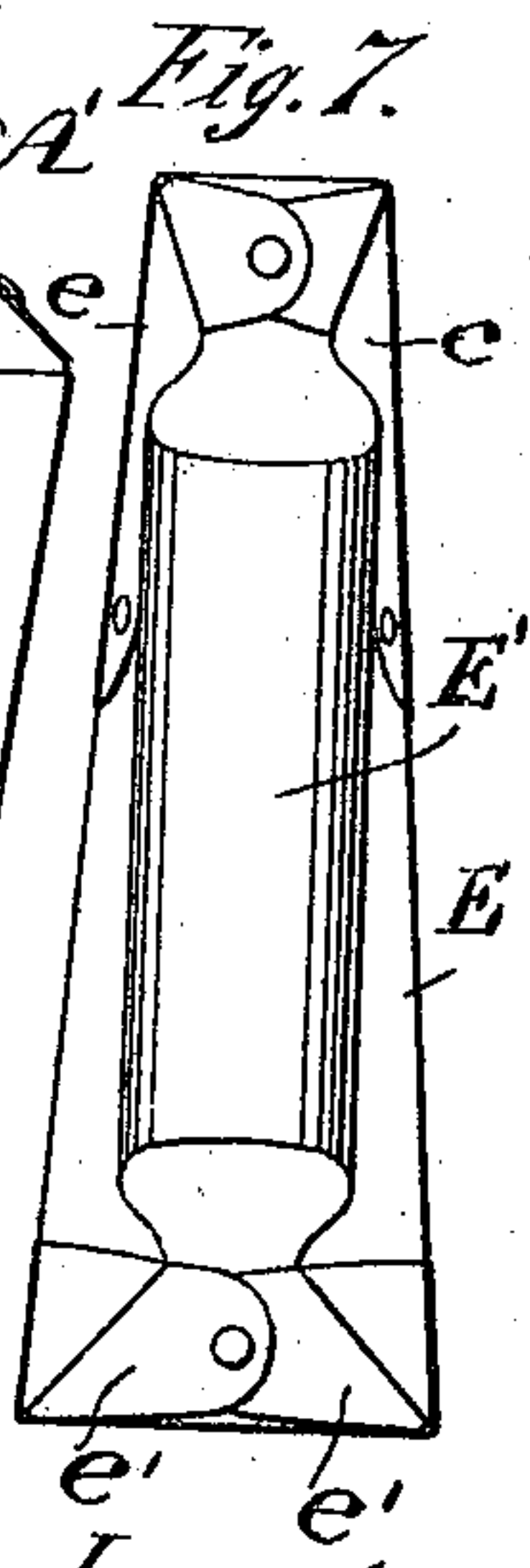
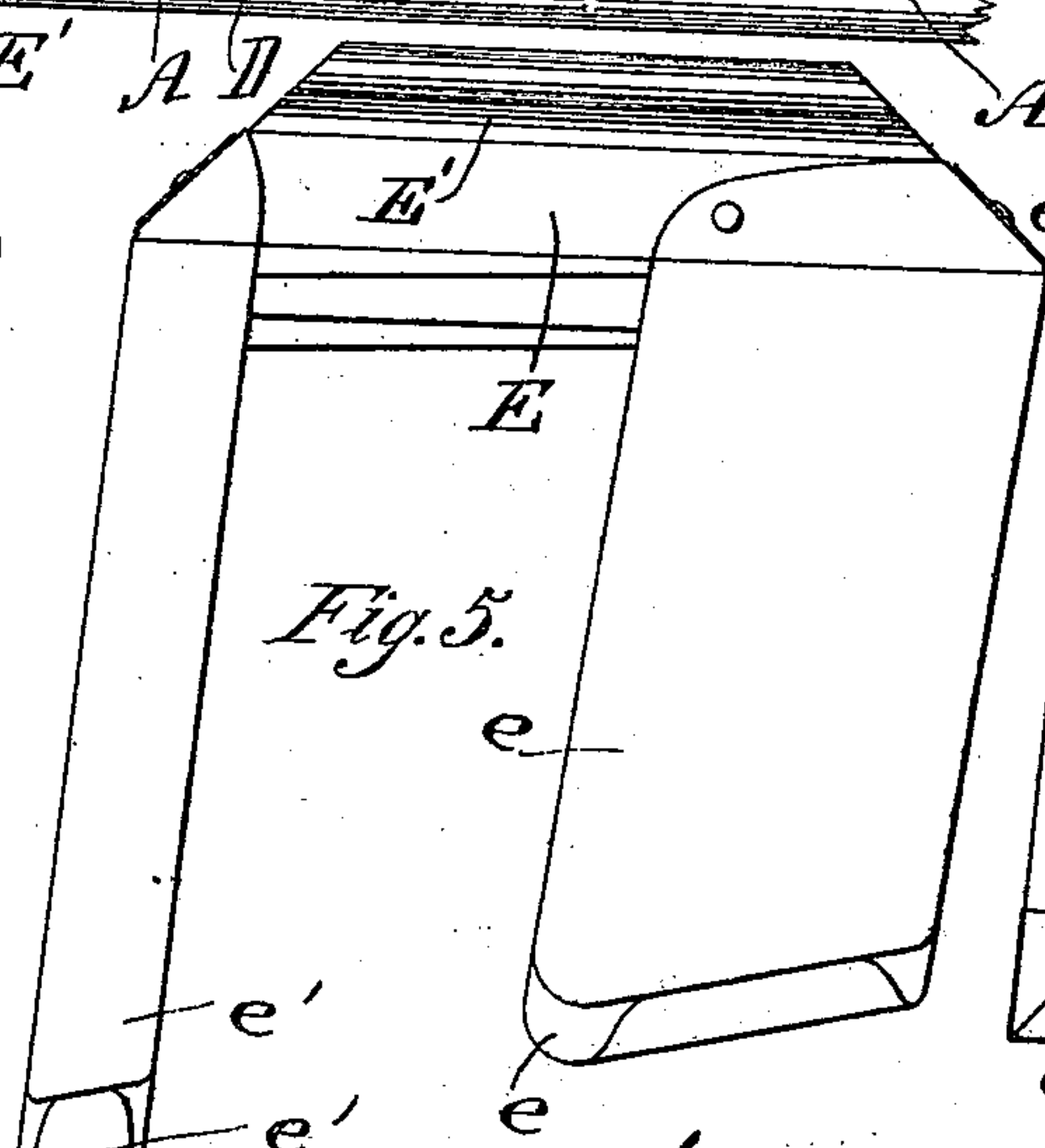
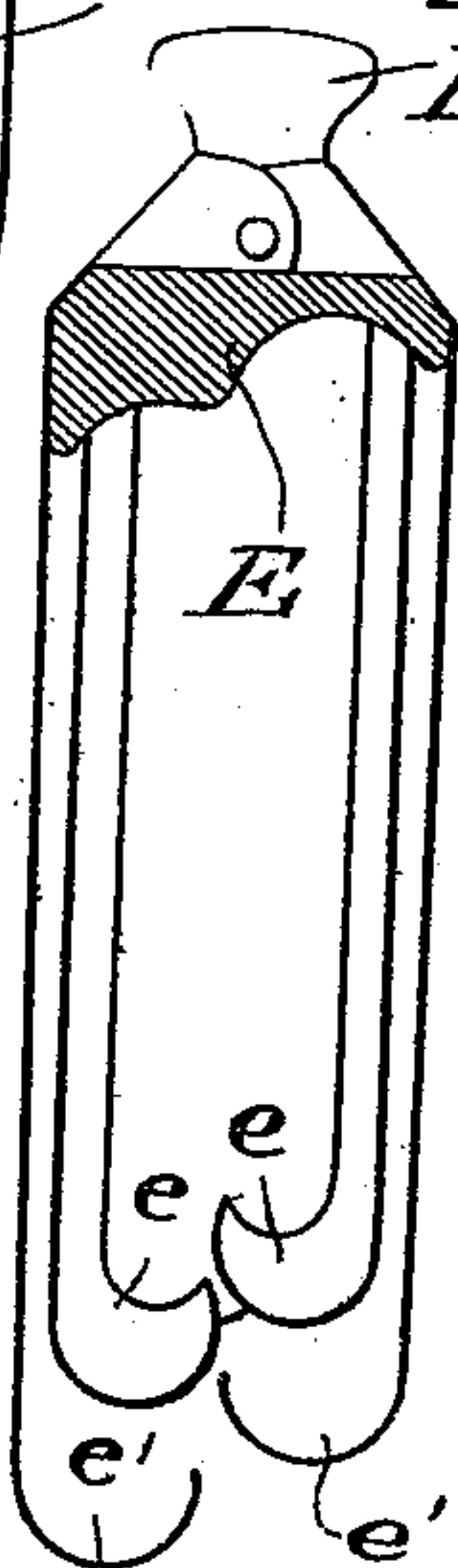
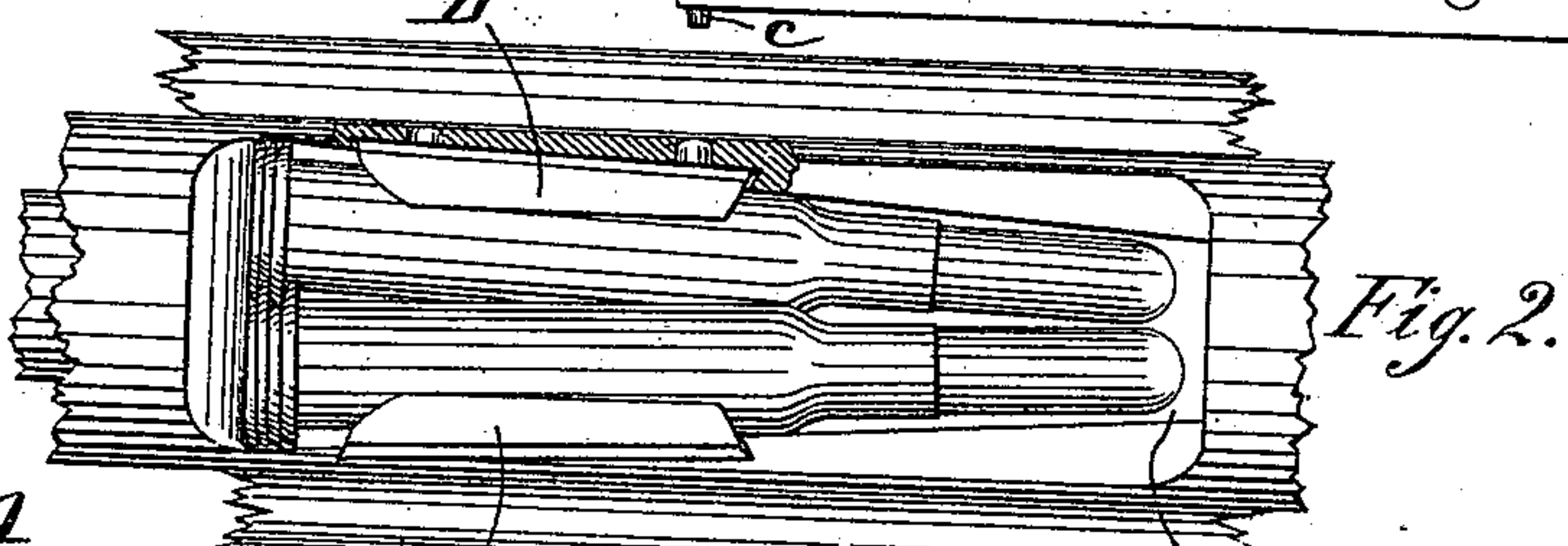
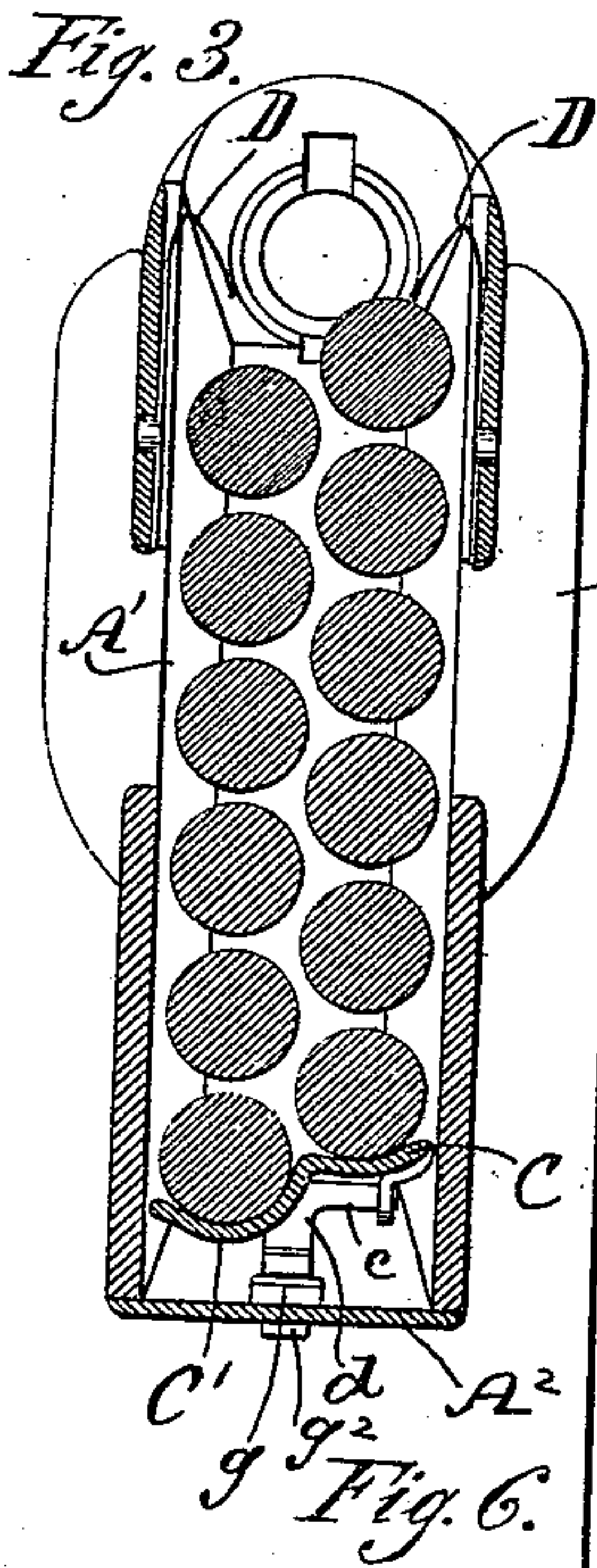
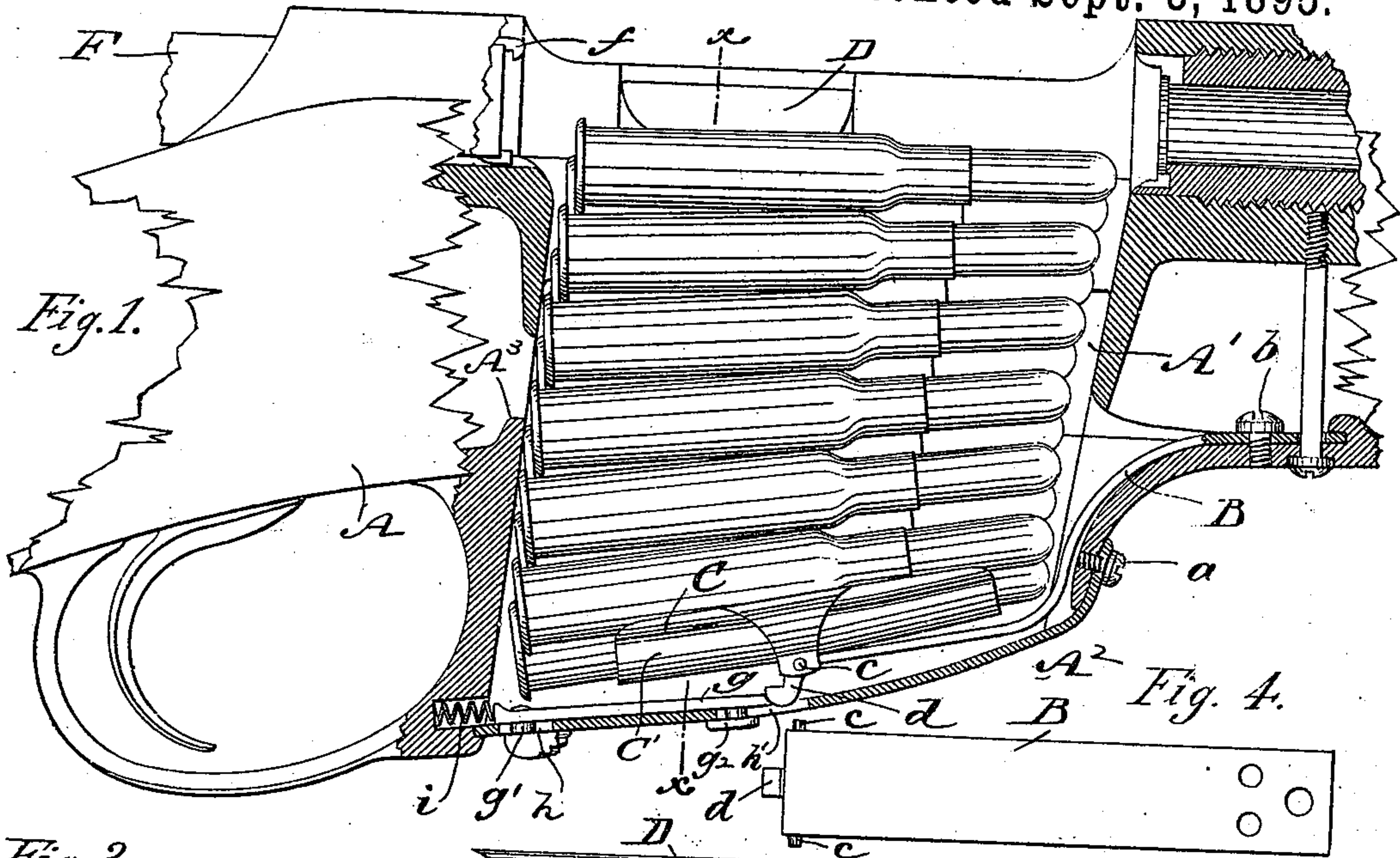


(No Model.)

F. E. LODETTI.
MAGAZINE FOR REPEATING FIREARMS.

No. 545,512.

Patented Sept. 3, 1895.



Witnesses.
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UNITED STATES PATENT OFFICE.

FRANK EMILIUS LODETTI, OF RONDOUT, NEW YORK.

MAGAZINE FOR REPEATING FIREARMS.

SPECIFICATION forming part of Letters Patent No. 545,512, dated September 3, 1895.

Application filed November 2, 1894. Serial No. 527,711. (No model.)

To all whom it may concern:

Be it known that I, FRANK EMILIUS LO-
DETTI, a subject of the King of Italy, and a
resident of Rondout, county of Ulster, and
5 State of New York, have invented certain new
and useful Improvements in Magazines for
Repeating Firearms, of which the following is
a specification, reference being had to the ac-
companying drawings, forming a part thereof,
10 in which similar letters of reference indicate
corresponding parts in all the figures.

This invention relates to magazines for re-
peating or self-loading firearms, and has for
its object to provide a simple, cheap, readily-
15 constructed, and perfectly-operating device of
this character, by means of which two or more
rows of cartridges may be held in the maga-
zine and automatically carried to the level of
the breech, a further object of the invention
20 being to provide such a device as will enable
the firearm upon which it is applied to be used
as a single-loading arm.

The invention consists in the novel con-
struction and arrangement of parts herein-
25 after fully described.

In the accompanying drawings, Figure 1 is
a longitudinal central section of the maga-
zine of a rifle embodying my invention. Fig.
2 is a plan view of the same. Fig. 3 is a ver-
30 tical cross-section taken upon the line $x x$,
Fig. 1. Fig. 4 is a plan view of the spring
which forces the cartridges upwardly. Fig. 5
is a side elevation of a device which I use for
holding the cartridges as they are inserted in
35 the magazine. Fig. 6 is an end view of the
same. Fig. 7 is a plan view thereof.

In the practice of my invention I form in
the gun A a magazine A' of the usual or any
other desired form and of a width to hold two
40 or more rows of cartridges, preferably having
a base A², secured removably beneath the
same by means of the screw a for greater con-
venience of access from the bottom. Within
the magazine is a plate-spring B, secured at
45 one end by means of screws b to the forward
end of the magazine, having at the opposite
end thereof a pivot or trunnion c , from the
center of which depends a hook d . Pivoted
upon the trunnion c is a plate C, divided lon-
50 gitudinally to form two integral sections con-
caved to receive the lower cartridges therein,
one of the said sections C' being depressed to

range below the level of the main portion C
and hold the two rows of cartridges at unequal
height, as shown in Fig. 3. Near the top I 55
secure upon the interior of the magazine, at
each side thereof, springs D, turned down-
wardly and inwardly, so as to bear upon the
uppermost cartridge in the magazine.

To provide for placing the cartridges expe- 60
ditiously in the magazine, I have constructed
a receptacle comprising a strip E, concaved
upon its lower face similarly to the plate C,
in order to hold the cartridges in the position
shown in Fig. 3, whereby one of the same is 65
always higher than the others. This strip
has upon the top thereof a handle E, and de-
pending from the same are side pieces or sup-
ports $e e'$ at each end thereof, curved upwardly
at the ends, the supports on one side being 70
elevated above the level of those upon the
other side to conform to the concavities in
the strip E.

Upon the usual bolt F of the gun I secure
a hook or catch f , which engages with the head 75
of the cartridge in the barrel, and when the
arm has been discharged and the bolt is drawn
back the cartridge-shell is carried with it.

The operation of the device will be readily
understood from the foregoing description, 80
taken in connection with the accompanying
drawings. The cartridges having previously
been placed in the receptacle between the
strip E and the supports e and e' , the breech
is opened and the receptacle with the car- 85
tridges therein placed in the magazine and
the receptacle thereupon slipped off the car-
tridges, which thus rest in the position indi-
cated in Fig. 3. The said receptacle is of very
fine flexible steel or other metal, and the ends 90
thereof yield sufficiently to disengage from
the lower cartridges. The bolt F of the rifle
is then drawn back, as in Fig. 1, the extractor
 f carrying with it the empty shell, if such be
left in the barrel, which is then ejected, and 95
the spring-plate B forces the cartridges up-
wardly until the topmost one thereof is in
substantial alignment with the barrel, where-
upon the bolt is forced forwardly to bring the
said cartridge in place. When the firearm 100
has been discharged, this operation is re-
peated and the cartridges are taken alter-
nately from the right and left hand rows and
inserted into place, this arrangement of the

cartridges being, so far as I am aware, a broadly novel means whereby a considerable number of the same may be held in a comparatively small vertical compass. The springs D not only prevent too great upward movement of the cartridges, but also serve to direct the same, as best shown in Fig. 2, one of the said springs always bearing upon the uppermost cartridge.

Should it be desired to use the firearm as a single-loading gun, the plate C may be held downwardly against the spring D by means of a bolt *g*, beneath the same, having a stud *g'* thereon sliding in a slot *h* in the base A² of the magazine, at the forward end of which bolt is a button *g*², projecting through a somewhat more elongated slot *h'* in the base. Rearward of the bolt *g* is a spiral spring *i*, mounted in the wall of the magazine and causing the bolt to be normally projected forwardly. When the button *g*² is pressed back, the catch or hook *d* upon the spring B falls beneath the same, and, the button being released, the bolt engages with the said hook and holds the plate C and the spring B downwardly out of active engagement with the cartridges.

The advantages resultant from the use of my invention will be manifest to all who are conversant with the general class of devices to which the same appertains.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A magazine for repeating fire arms, comprising a body of sufficient width to receive two or more rows of cartridges therein, a plate-spring secured to the base thereof beyond its main body, a plate pivoted to the free end of the said spring, and depressed longitudinally at one side to hold the rows of cartridges at unequal heights, springs secured to the magazine at each side near the top thereof and bent downwardly, a catch depending from the plate spring, a normally projected bolt sliding in the base of the magazine, and a button

upon the said bolt, whereby the same may be slid backwardly or caused to engage the catch, substantially as shown and described.

2. A magazine for repeating fire arms, having a plate spring secured to the base thereof beyond its main body, a plate pivoted to the free end of the said spring at the bottom of the magazine to force the cartridges upwardly, a catch depending from the spring, a bolt sliding in the base of the magazine, a spring at the rear of the said bolt to hold the same normally forward, and a button upon the said bolt, whereby the same may be slid backwardly or caused to engage the catch, substantially as shown and described.

3. A magazine for repeating fire arms comprising a body of sufficient width to receive therein two or more rows of cartridges, a plate spring secured to the base thereof beyond its main body, a plate pivoted to the free end of the said spring at the bottom of the magazine to force the cartridges upwardly, the said plate being longitudinally concaved and bent downwardly at one side to hold the rows at unequal heights, springs secured near the top of the magazine at each side thereof and bent downwardly to bear upon the cartridges to maintain the same in place and to guide the same into the barrel, a catch pivoted to the plate spring at the bottom, a bolt having studs thereon working in slots in the magazine base, a spiral spring behind the bolt to force the same forwardly, and cause it to engage with the catch and hold the spring out of engagement with the cartridges, whereby a single loading arm is formed, and a button upon one of the studs to actuate the said bolt, substantially as shown and described.

In testimony that I claim the foregoing as my invention, I have signed my name, in presence of two witnesses, this 13th day of October, 1894.

FRANK EMILIUS LODETTI.

Witnesses:

CHARLES MOORE,

HARRY CLIFFORD THOMAS.