

E. K. ROOT.
Cartridge-Box

No. 22,675.

Patented Jan. 18, 1859.

Fig. 7.

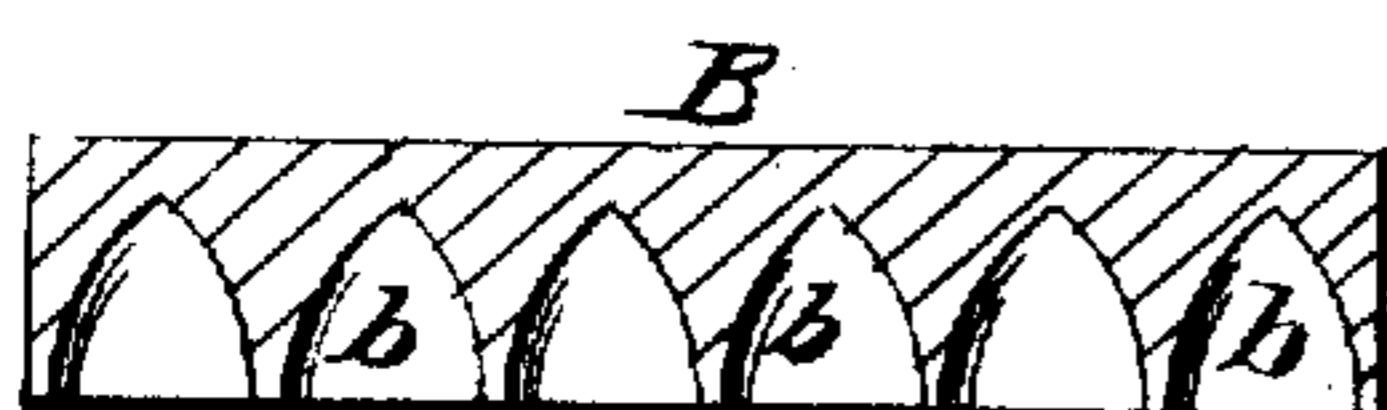


Fig. 6.

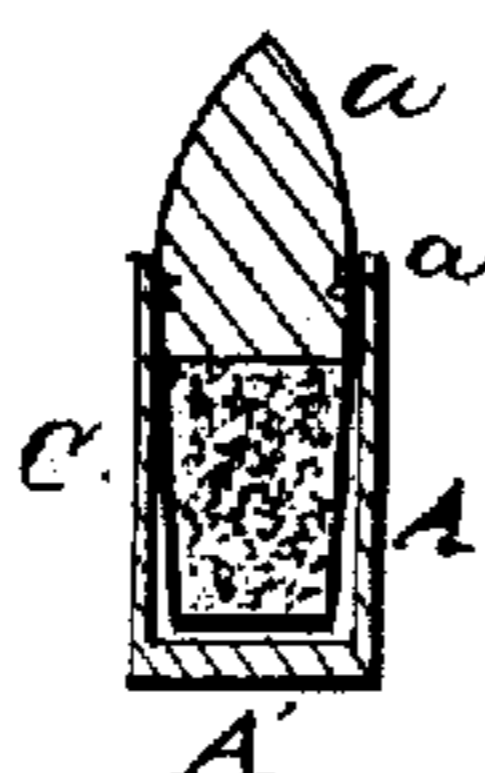
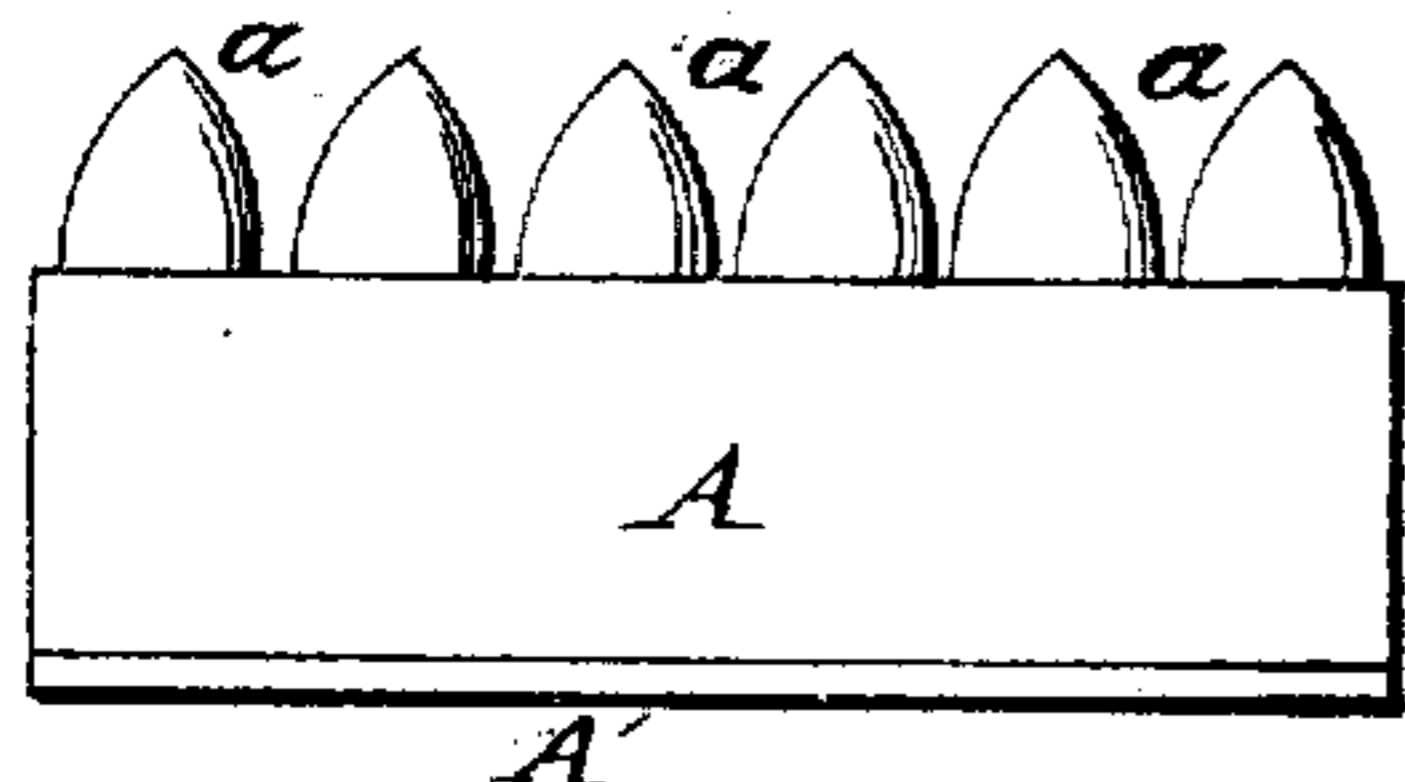


Fig. 12.

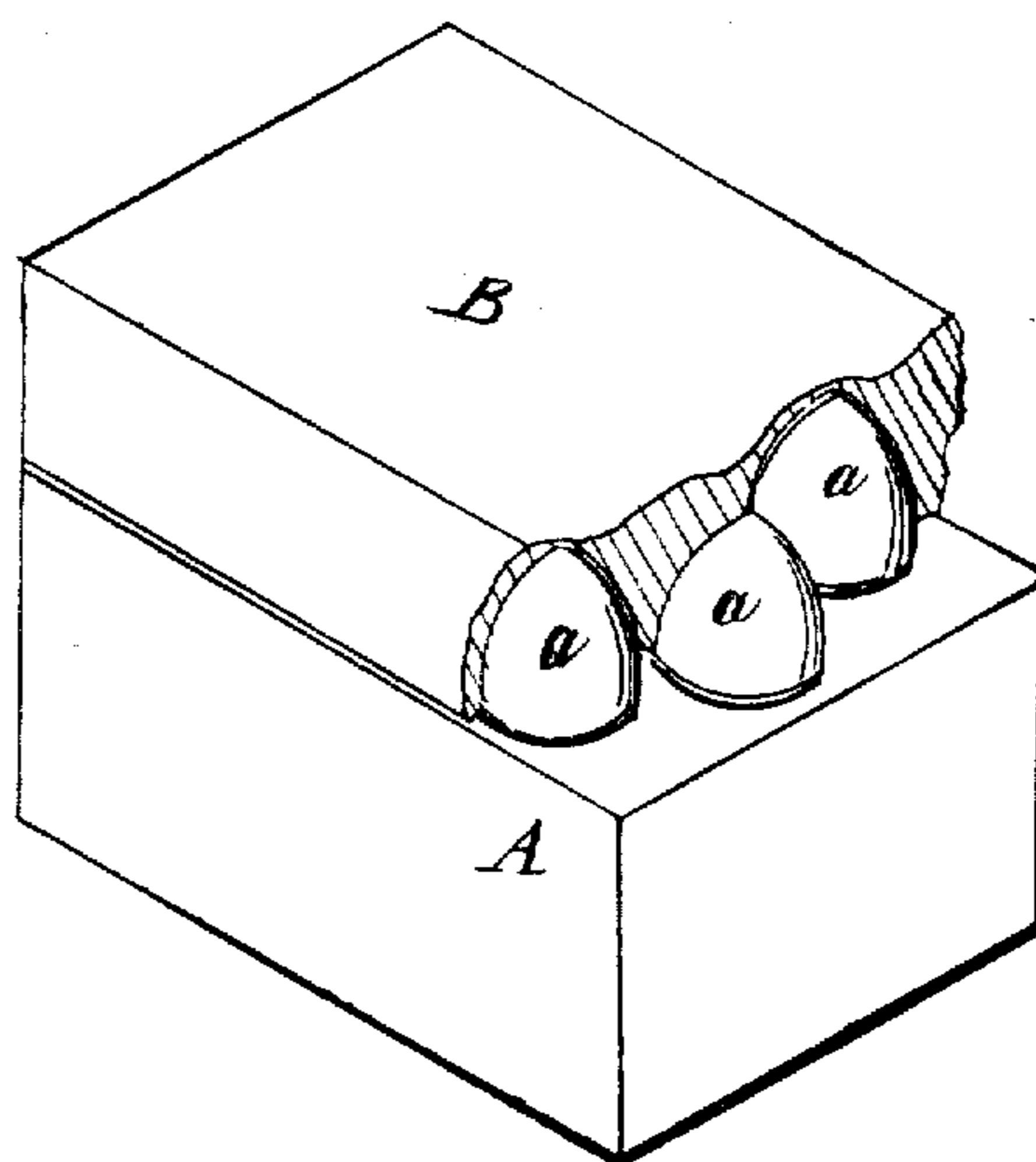


Fig. 5.

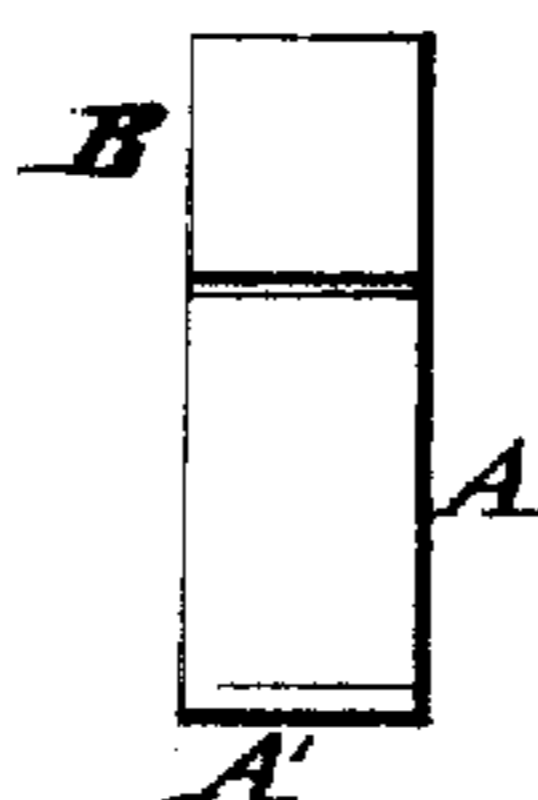
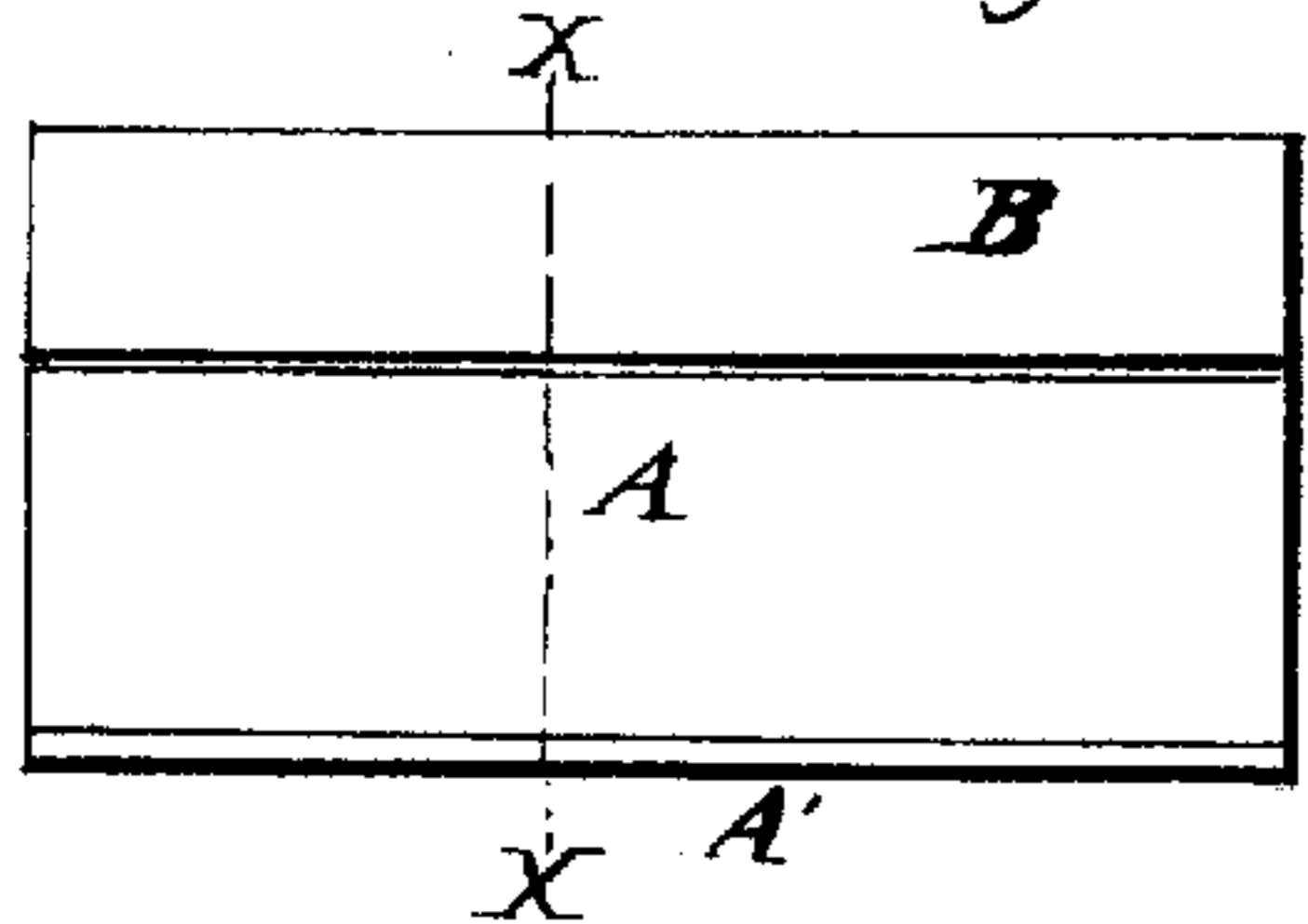


Fig. 2.

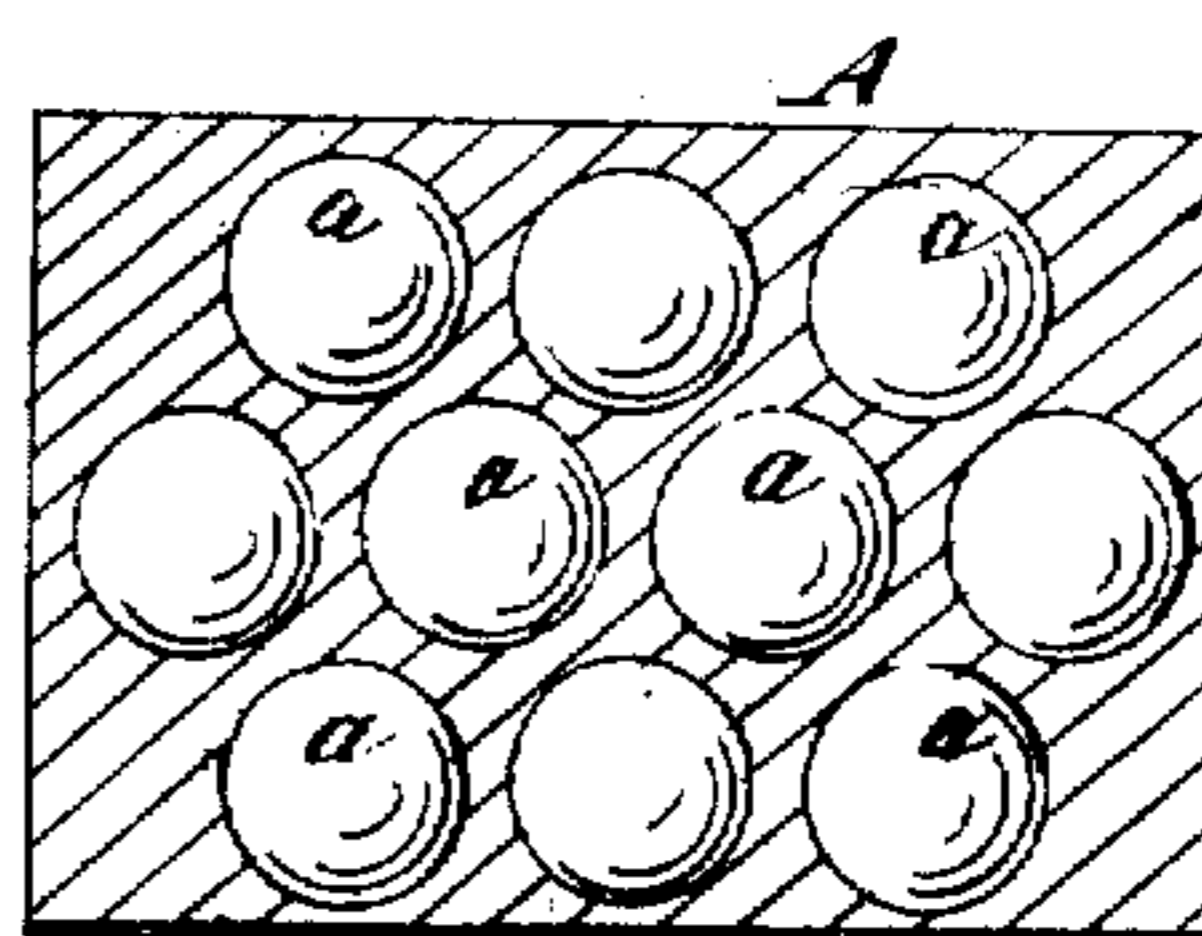
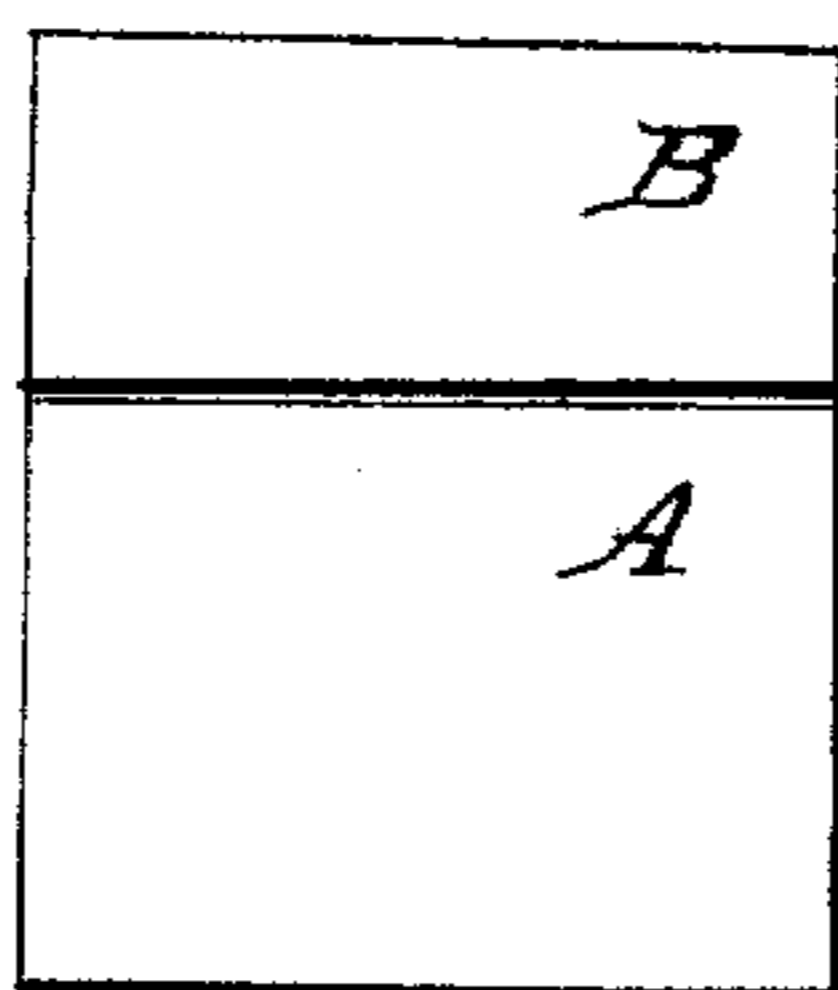
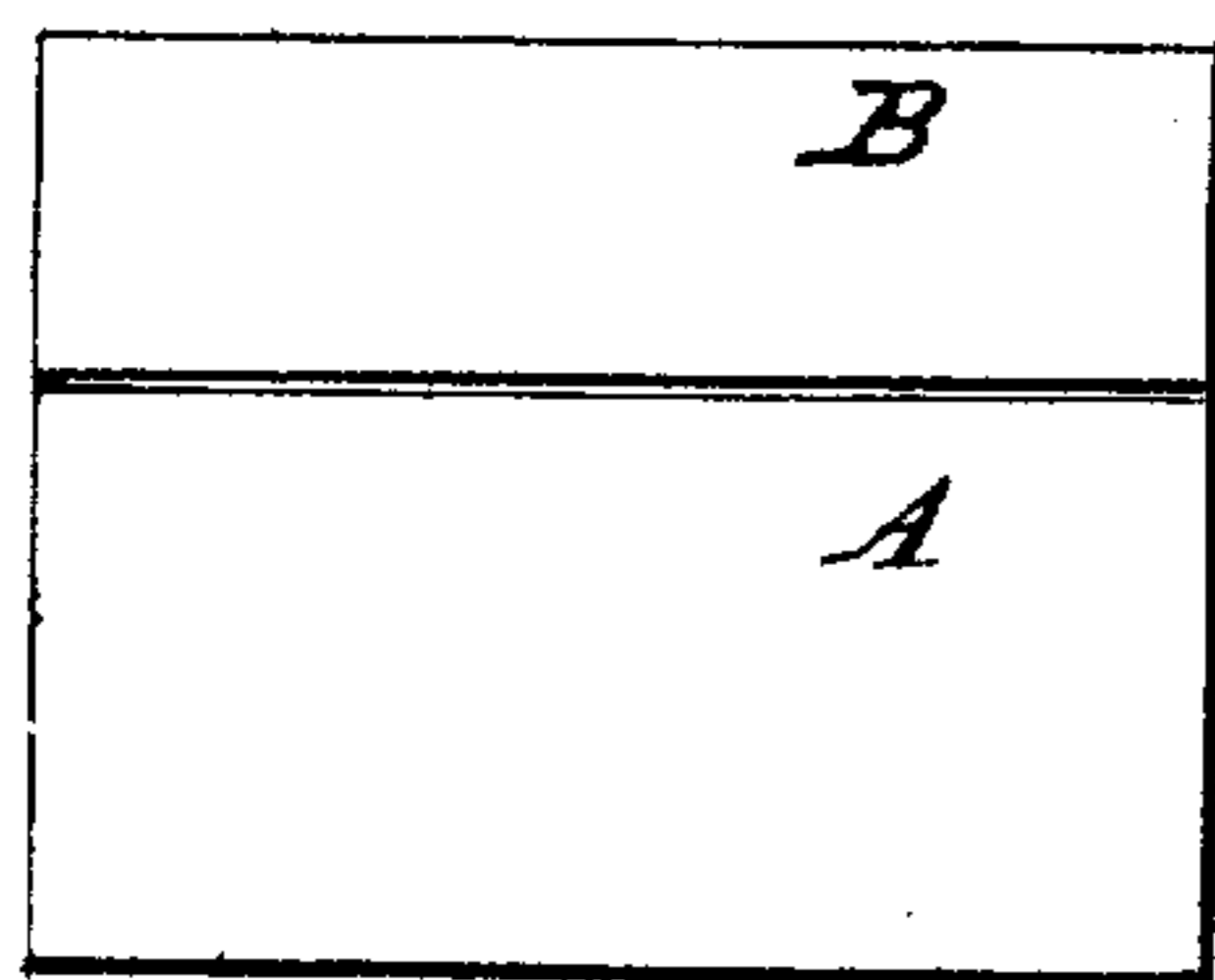


Fig. 1.



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Fig. 11

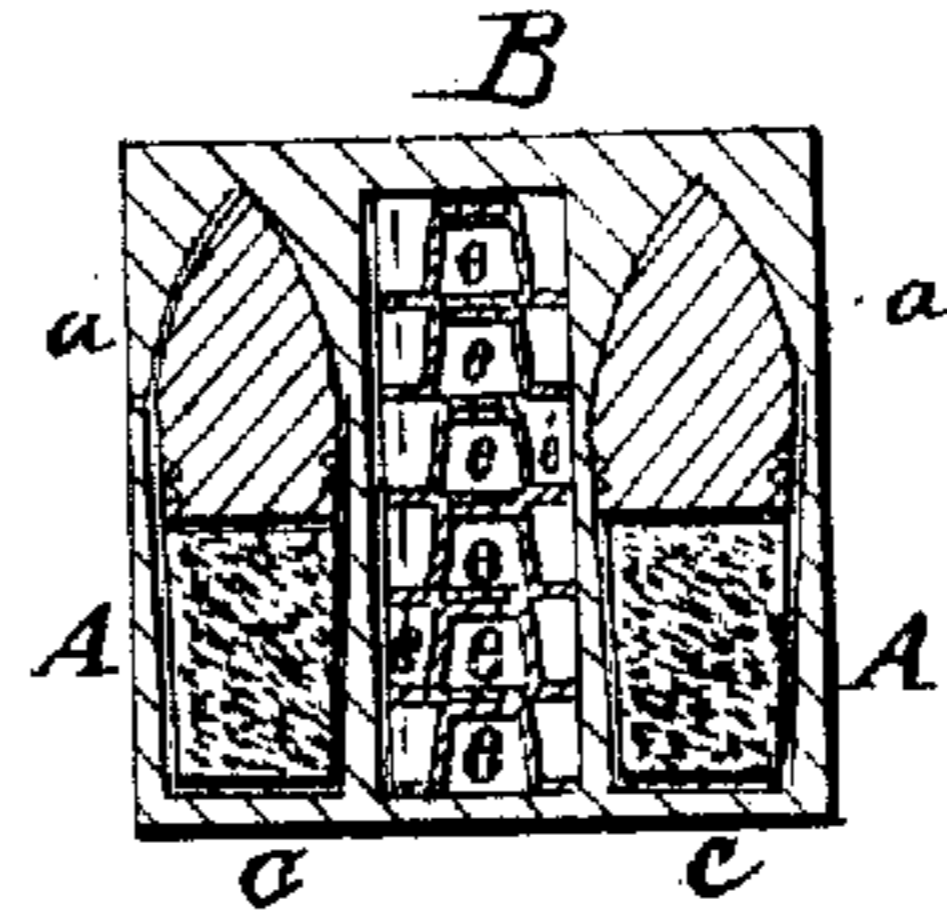


Fig. 14

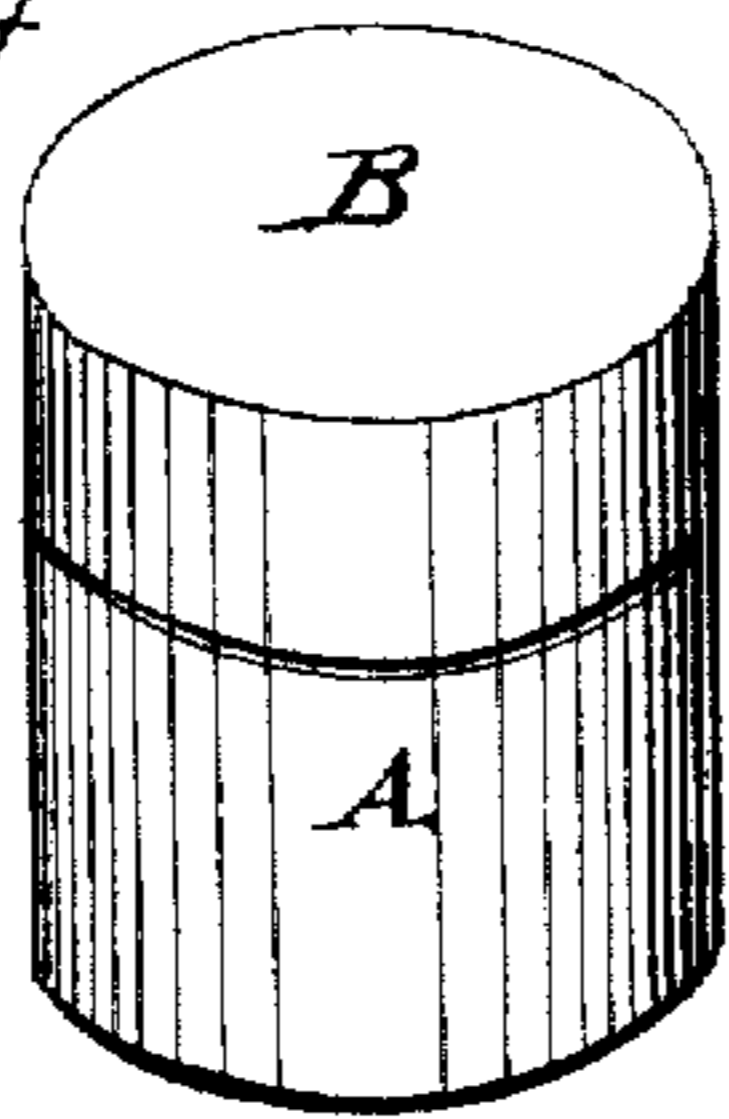


Fig. 10.

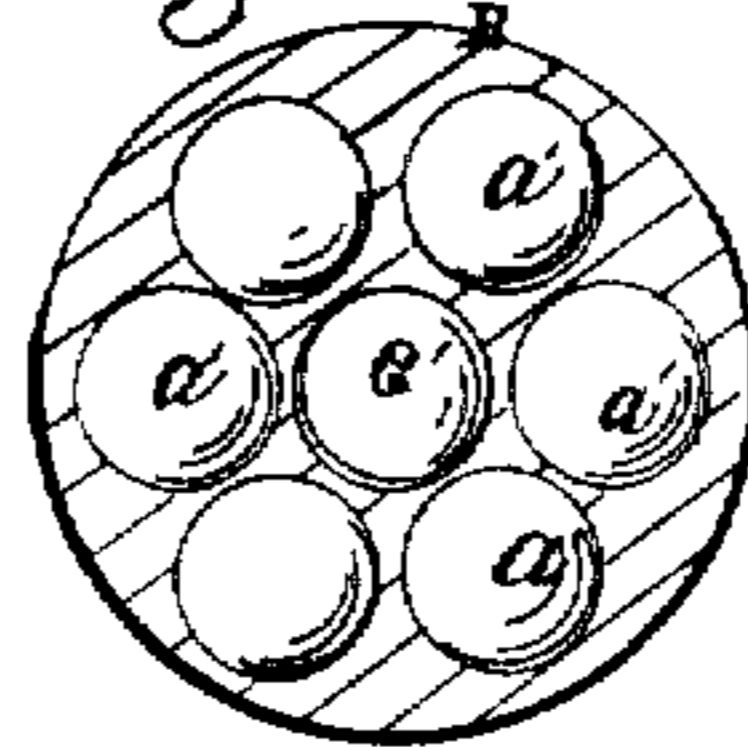


Fig. 13

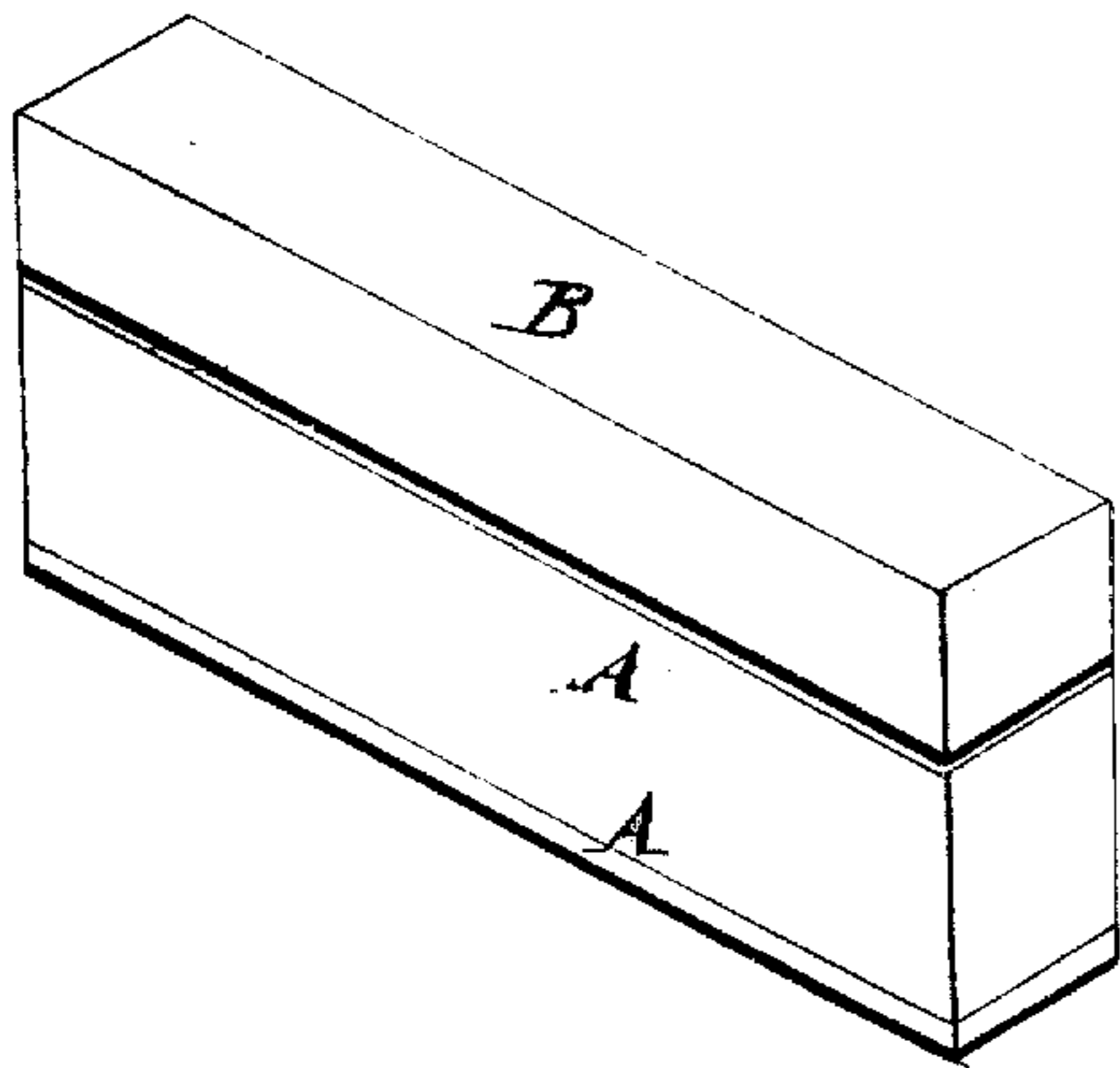


Fig 9

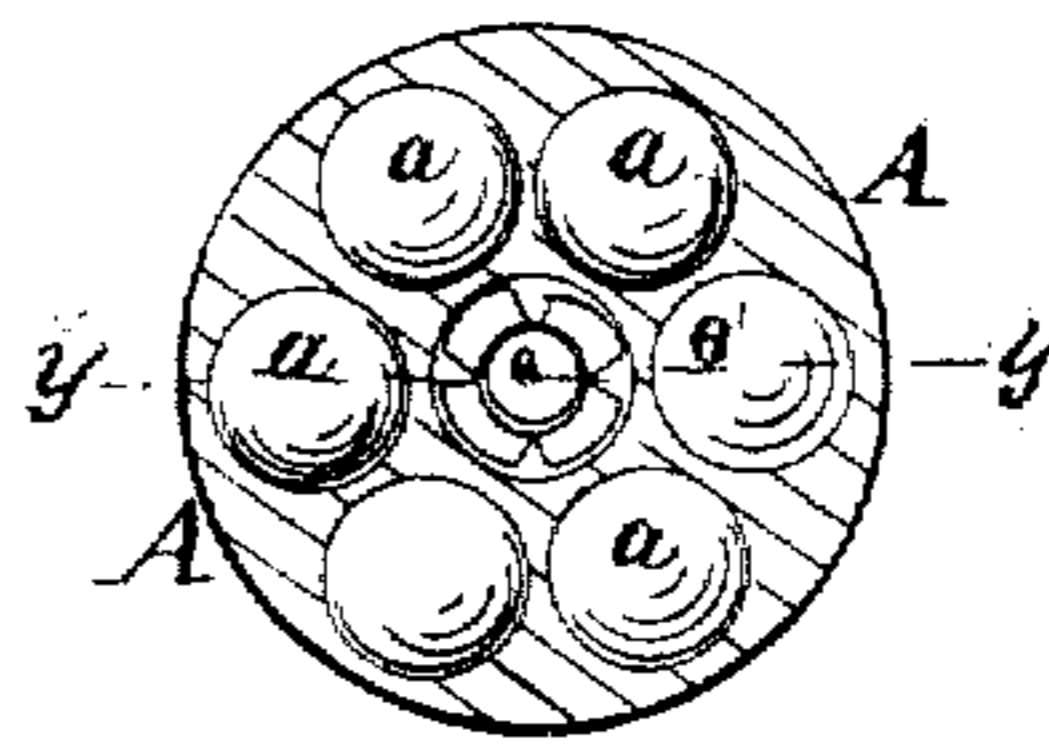


Fig 8

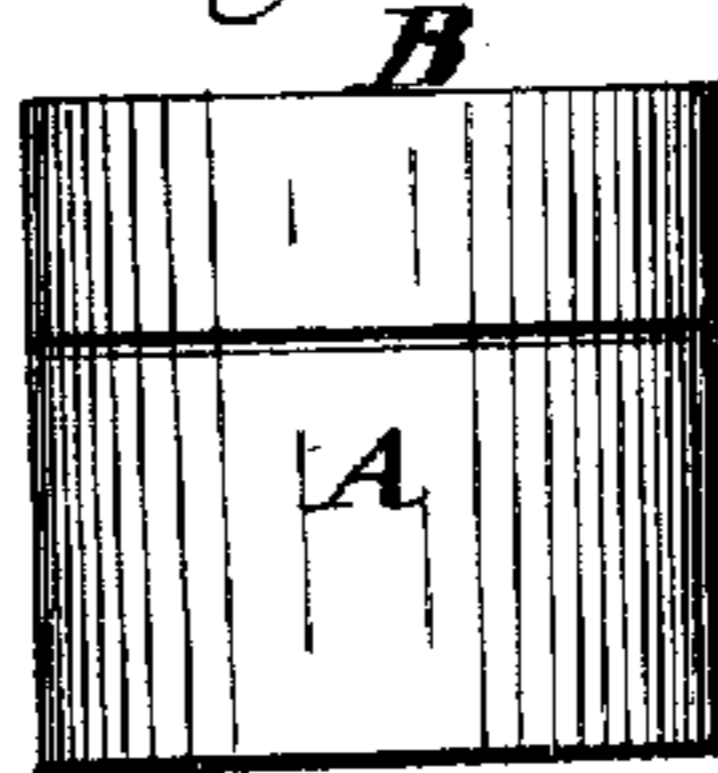


Fig 3

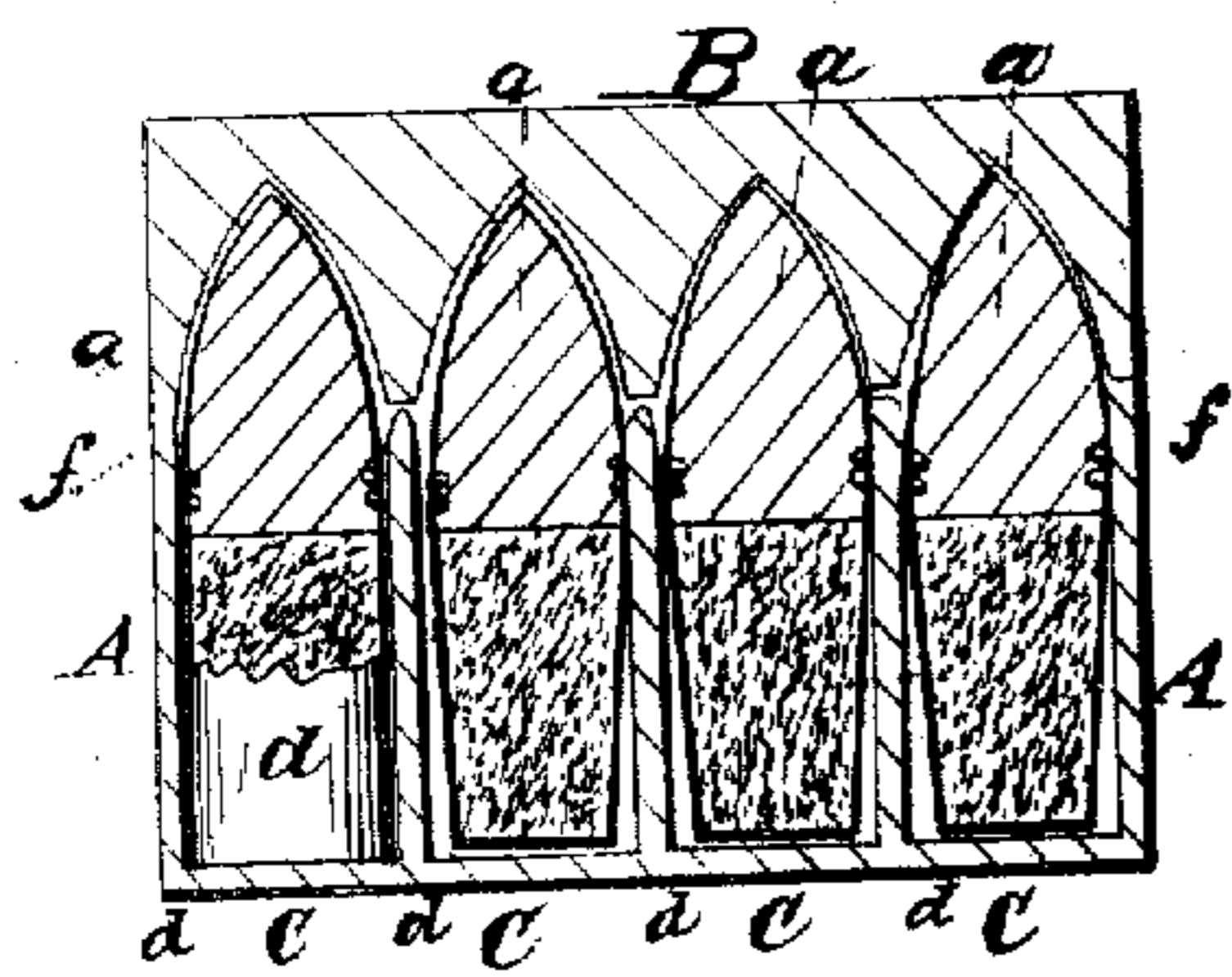


Fig: 4.

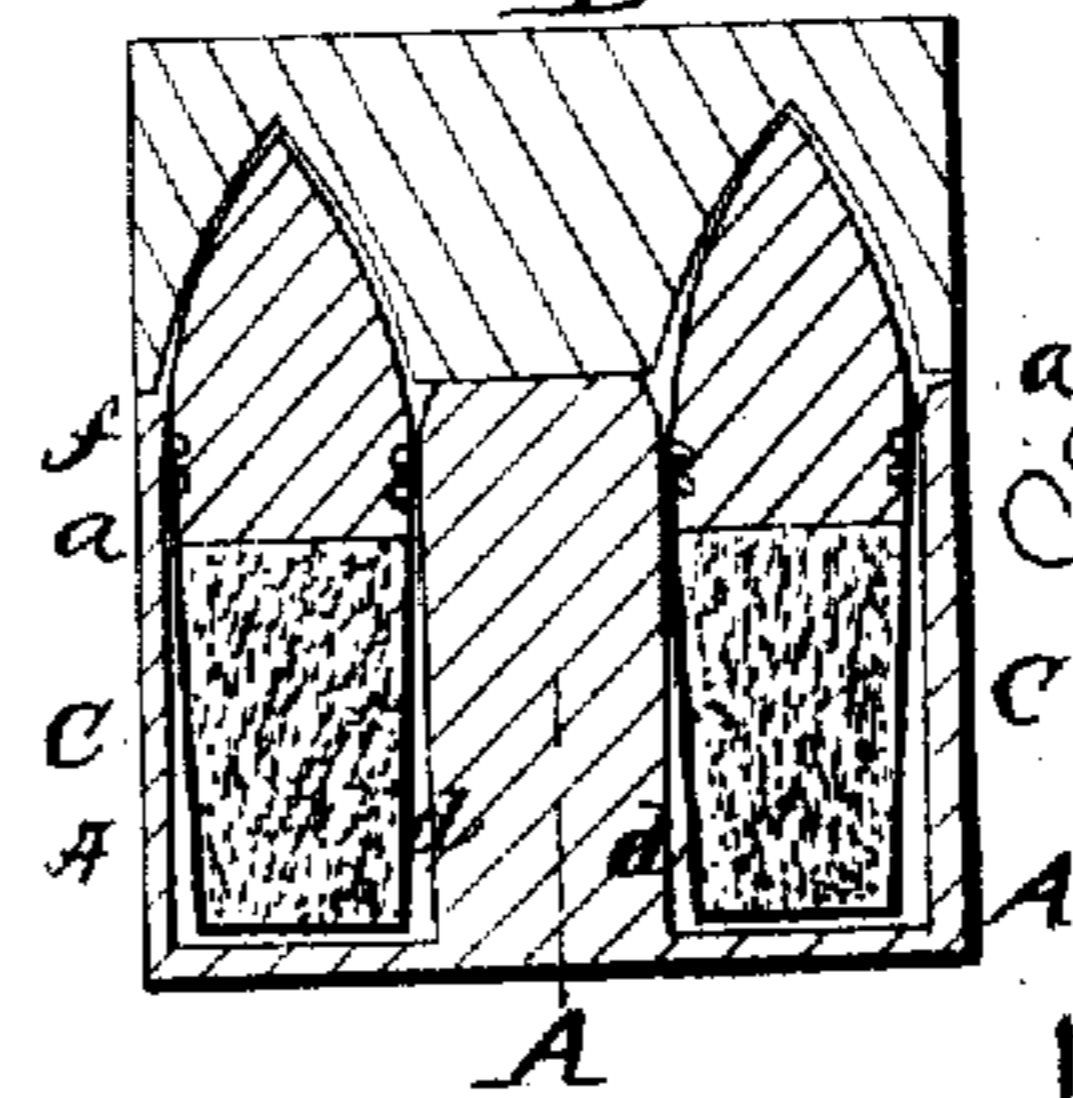


Fig. 4

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UNITED STATES PATENT OFFICE.

E. K. ROOT, OF HARTFORD, CONNECTICUT.

METHOD OF PACKING CARTRIDGES.

Specification of Letters Patent No. 22,675, dated January 18, 1859.

To all whom it may concern:

Be it known that I, E. K. Root, of Hartford, county of Hartford, in the State of Connecticut, have invented a new and useful
5 Method of Packing Cartridges; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and to the letters of reference marked
10 thereon.

My invention has for its object the putting up of cartridges in such a manner that they shall not be liable to injury by transportation; while at the same time the packing may be more readily removed with less
15 danger of breaking the cartridge than exists with the usual method of packing, and also serve as a convenient holder or box for carrying the remaining cartridges, when
20 only a portion of a package is used at one time. And my invention consists in packing the cartridges between blocks of wood or their equivalents, formed with cavities to receive, and retain the cartridges substantially as hereinafter described.
25

In the accompanying drawings forming part of this specification, Figure 1 represents a side and end view of one of my improved cartridge packings, and holders.
30 Fig. 2, a top view, of lower portion, or block, of the same, with cartridges in. Fig. 3, a vertical longitudinal section through the center of the same. Fig. 4, a vertical lateral section, through the center, of the
35 same, and Fig. 12, a perspective view of same. Fig. 5 represents a side and end view of another package, of different size and proportion. Fig. 6, a side view of same with upper portion, or block, removed, and
40 also a vertical cross section on line $x x$, Fig. 5. Fig. 7, a vertical longitudinal and cross section through the center of the upper block, or portion, of same, and Fig. 13, a perspective view of same. Fig. 8 represents
45 a side elevation of another package of a cylindrical form and adapted to contain in addition to the cartridges, an equal number of caps. Fig. 9, a top view of lower portion of the same with contents. Fig. 10, a bottom view of the upper portion, or block,
50 of the same. Fig. 11, a vertical section, through the same, at y, y , Fig. 9—and, Fig. 14, a perspective view, of the same.

Similar letters denote the same parts in
55 the different views.

A, represents the lower block, or portion, of the box, in which, is formed a series of cavities, d , (see Figs. 3 and 4), to accommodate the charge, or paper portion c , of the cartridge, and a portion of the ball a . 60

B, is the upper block, or portion, of the box, in which is formed a series of cavities, b , (see Fig. 7,) to receive a portion of the ball, not accommodated, or incased by the lower block A. 65

A, represents the balls of the cartridges, e , the percussion caps (see Figs. 9 and 11) and, e^1 , and, e^2 , the cavities in lower block A, and upper block B, for receiving the said caps. 70

It will be observed that the cavities d , formed in the lower block A, do not extend entirely through said block, but are closed up at their lower ends by a remainder of stock sufficient to insure strength to the
75 box and also that said cavities, or bores, have their mouths or upper edges, slightly flared, or funneled, as represented at f (see Figs. 3 and 4).

It has been found practically better in
80 constructing the boxes, or packages of wood, to bore the cavities d only partly through the block A, as before mentioned. They however may be bored entirely through the block A and closed up at their bottoms, with
85 a thin strip, or bottom piece A' (as seen at Figs. 5, 6, 7, and 13), having its grain run at right angles to the grain of the piece A, though I do not consider the last named
90 method as desirable as the first.

It is obvious that the construction of the box may be changed from either of these methods without departing from the spirit of my invention.

It is advisable to flare the mouths of the
95 cavities d or their upper edges (as already described) in order that the lower portion of the ball or cartridge, or both, may more freely be placed in or extracted from said cavity. It will be seen that the cavities or
100 bores d are of a uniform diameter, from where the flaring at the upper edge ceases down to the bottom except at Fig. 11. The straight bored cavities are such as would be most desirable with the ordinary straight
105 cartridge; but when the cartridges are tapering the bores should be made correspondingly, as seen at Fig. 11, in order that the cartridge may come into contact with the sides of the bore d and be perfectly held. 110

It will be observed that the modification illustrated by the cylindrical package, so constructed as to include the cap receptacle, is peculiarly advantageous where "many chambered fire arms" are used, since the packages can be made to contain the precise number of cartridges and caps required for one round of the arm. It is also obvious that the cap receptacle can be formed in any of the many modifications (in form and degree) of which my improved holders are susceptible, and that the details of construction, form and proportions of the packages, may be varied at pleasure without departing from my invention.

The securing of the two portions of the package together may be effected in any desired way, by a string passing around them, or by a paper strip or wrapper, and forms no part of my present invention.

Having fully described my improved

method of packing or holding cartridges, and not wishing to confine myself to any exact shape of package, peculiar mechanical construction of box or arrangement therein of the cartridges and caps, what I claim as new and desire to secure by Letters Patent is,

1. Packing or putting up cartridges between two blocks, or their equivalents, substantially as hereinbefore described.

2. I also claim forming in the package or holder as hereinbefore described, a receptacle or receptacles for containing caps, or other primings, substantially as described.

In testimony whereof I have hereunto set my hand this twenty-third day of October, 1858.

E. K. ROOT.

Witnesses:

R. D. HUBBARD,
W. S. PERRY.