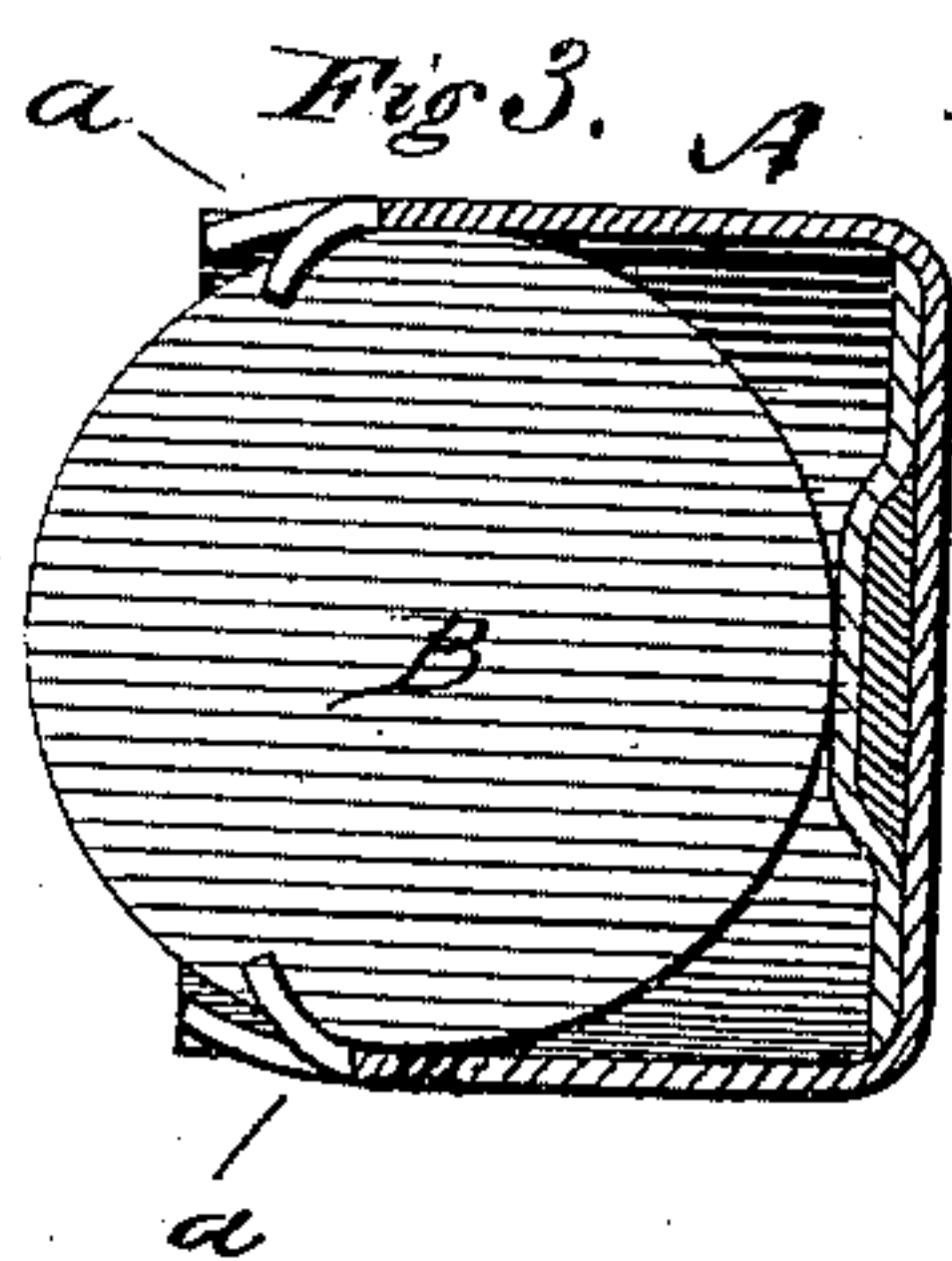
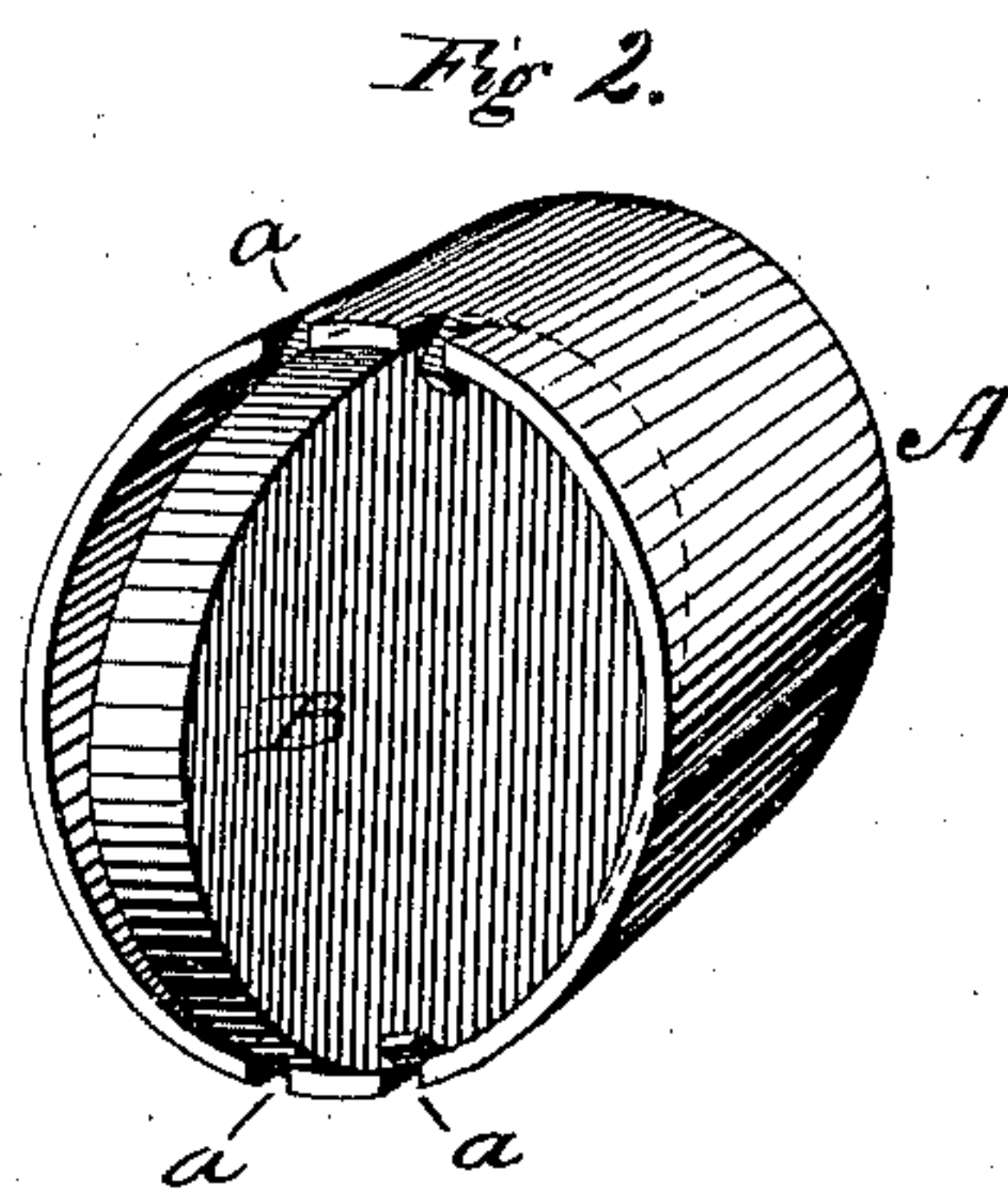
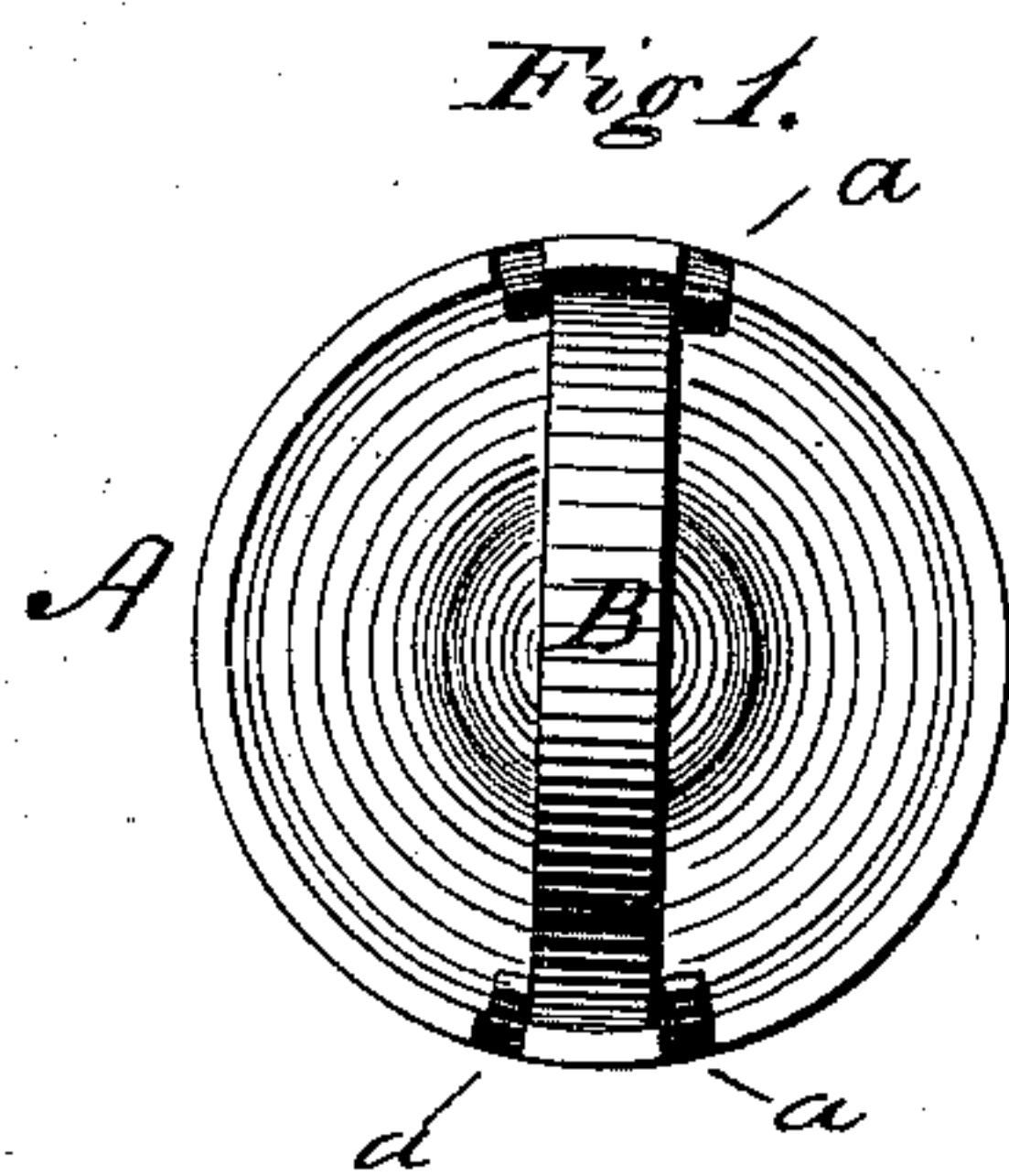


ALFRED C. HOBBS & JEROME ORCUTT.
Improvement in Primers for Cartridges.

No. 120,196.

Patented Oct. 24, 1871.



Witnesses.

Harry King
Phil. F. Dodge

Inventors.

Alfred C. Hobbs
Jerome Orcutt
by Dodge & Munn
Their Atlys -

UNITED STATES PATENT OFFICE.

ALFRED CHARLES HOBBS AND JEROME ORCUTT, OF BRIDGEPORT, CONN.

IMPROVEMENT IN PRIMERS FOR CARTRIDGES.

Specification forming part of Letters Patent No. 120,196, dated October 24, 1871.

To all whom it may concern:

Be it known that we, ALFRED CHARLES HOBBS and JEROME ORCUTT, of Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain Improvements in Primers for Cartridges, of which the following is a specification, reference being had to the accompanying drawing.

Our invention relates to an improved primer for cartridges; and consists in an ordinary percussion-cap having a circular disk inserted edgewise therein as an anvil, the anvil being secured by nicking or bending down the edge of the cap.

Figure 1 is an inside end view of our primer. Fig. 2 is a perspective view of the primer, and Fig. 3 is a longitudinal section of the same.

The object of our invention is to produce a simple and reliable primer, which may be made complete by machinery without the aid of hand labor.

We are aware that various forms of anvils have been heretofore inserted into percussion-caps to form primers; but owing to the irregular shapes of the anvils they could not be inserted in the proper positions with any degree of certainty by machinery; and consequently they were required to be put together by hand, which rendered them quite expensive. This difficulty we obviate by using as an anvil a circular disk of metal inserted edgewise into the cap.

In the drawing, A represents an ordinary percussion-cap, and B the circular disk anvil, which is made of the same diameter as the cap, and inserted edgewise therein, so as to bear against the back end, as shown in Fig. 3. The anvil is held in place by nicking or bending down the edge of the cap on each side of it, as shown at the points *a a* in all the figures. As this anvil is a disk of the diameter of the interior of the cap it is obvious that it must be held on edge, as well as held in the cap; and this is effected by the nicking of the cap, as represented in the drawing. It will be seen that a small portion of

the metal of the cap is forced inward along each side of the disk or anvil B, thus forming projections or points *a*, which thus hold the anvil B upright, and prevent it from being tipped or pushed over sidewise, the metal of the cap between these points *a* at the same time being compressed against the edges of the anvil, thus preventing it from being displaced. The anvil being circular does not require to be inserted with any particular side foremost; and, therefore, we are able by machinery to insert them in the proper position with perfect certainty; and consequently we can produce our primers more rapidly and at much less cost than those now in common use.

The primers made on our plan can be used in any cartridge-shell having a recess to receive the cap and a support for the front edge of the anvil to bear against.

Our primers are cheap, simple, and reliable; the anvil is so fastened that it cannot be lost out and so shaped as to insure the ignition of the fulminate, and to leave a free passage for the flame forward therefrom. The anvil being securely fastened in place, as described, renders the primers especially suitable for transportation and for the use of sportsmen and others having reloadable cartridges.

Having described our invention, what we claim is—

1. A disk-shaped anvil inserted edgewise into a percussion-cap, substantially as and for the purpose set forth.

2. The method of securing the anvil B upright within the cap and holding it therein by indenting or nicking the edge of the cap and compressing it against the anvil, substantially as described.

ALFRED CHARLES HOBBS.
JEROME ORCUTT.

Witnesses:

H. C. RYLANDS,
FRANK R. KENNEDY.

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