No. 676,000. Patented June 11, 1901.

H. HENNEBERG.

CARTRIDGE.

(Application filed July 18, 1899.)

(No Model.)

Fig. 1.

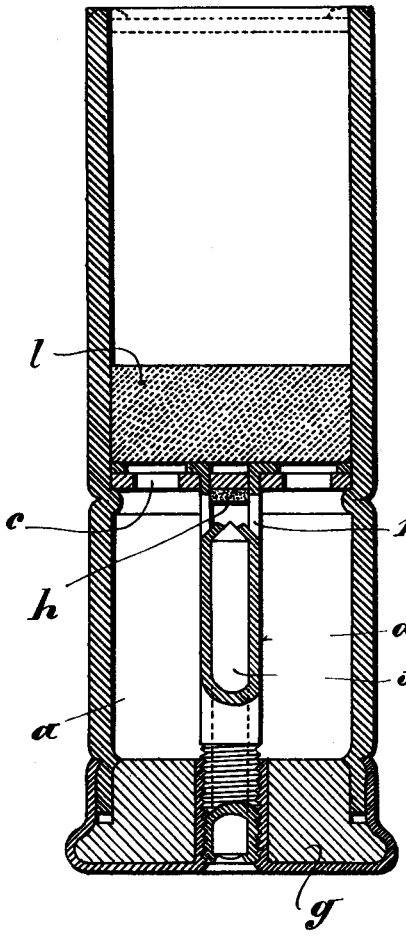
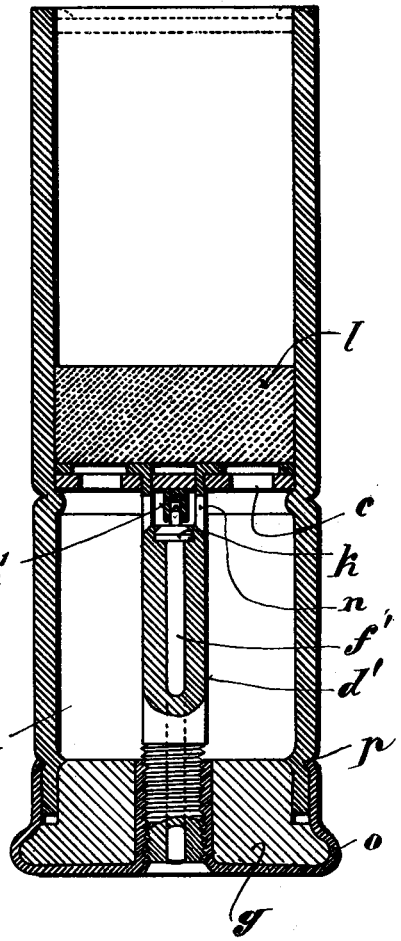


Fig. 2.



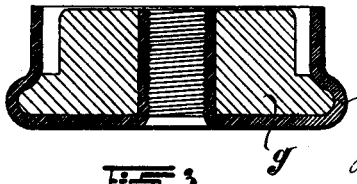


Fig. 3.

WITNESSES:

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HERMANN HENNEBERG, OF OBER-KUMMERNICK, NEAR SPITTELNDORF, GERMANY.

CARTRIDGE.

SPECIFICATION forming part of Letters Patent No. 676,000, dated June 11, 1901.

Application filed July 18, 1899. Serial No. 724,276. (No model.)

To all whom it may concern:

Be it known that I, HERMANN HENNEBERG, landed proprietor, of Ober-Kummernick, near Spittelndorf, in the Province of Silesia, Germany, have invented some new and useful Improvements in Cartridges, of which the following is a full and clear description.

This invention relates to cartridges in which the ignition of the powder or the like is effected in front and which may be safely loaded in such a manner as to permit of the powder charge being compressed.

The accompanying drawings, to which reference is hereinafter made, illustrate in section two forms of the improved cartridge.

In each form a perforated disk, plate, or false bottom *c* is placed within the cartridge-case and comes to rest against or is supported by an internal flange or projection and serves to divide the space for the powder from the space for the shot. The disk *c* is furnished with a tubular extension *d*, the outer end of which is screwed to engage with the base-block or cartridge end plate *g*. The tubular extension contains the firing or striking pin *f*, which is driven by the hammer or the like of the firearm against the primer *h*, Figure 1, or against the cap *h'*, Fig. 2. Two forms of striker are represented, the one shown in Fig. 1 being cylindrical and pointed and the one *f'* shown in Fig. 2 being provided at or near its end with a projecting flange or the like, which serves to prevent any gases escaping through the tubular extension *d'*.

The base-block or end plate *g* of the cartridge is bored and tapped centrally to engage with the extension *d*, so that when it is screwed down both it and the disk *c* are firmly held in place, and the powder charge, which has been previously introduced, may be compressed to any desired extent between them within the space *a*. The outside of the block *g* is recessed for the reception of the end of the cartridge-case. During the compression of the charge the striker *f* is not interfered with in any way and all danger is obviated.

Upon the disk *c* is placed a solid plug or wad *l*, of any suitable material, which serves to completely separate the powder charge from the shot.

Close to the primer *h* or the cap *h'* the tubular extension *d* or *d'* is perforated or slotted, as at *n*, and the parts of the metal removed or partially removed may be bent inward to form stops, which retain the striker in its safety position and prevent it from being accidentally forced into contact with the primer or cap.

The striker shown in Fig. 1 may be retained within the tube *d* by slightly contracting the mouth of the latter where it enters the block *g* and, if desired, by correspondingly reducing the diameter of the striker. In loading the cartridge the disk *c*, with its extension, is first introduced and the plug *l* is placed upon the top of it. The charge of shot is then laid upon the plug, and the end of the cartridge is then closed by a cap or the like or in any other suitable manner. The charge of powder is then introduced at the other end of the cartridge-case into the space *a*, and the block *g* is screwed down until the desired degree of compression is attained.

It will of course be understood that the improved cartridge may be used for bullets as well as for shot.

The bottom *g* of the shell is separate from the latter. After the bottom has been screwed onto tube *d*, and thereby pressed itself into the shell and caused a compression of the powder charge, the bottom is fastened to the shell by pressing the rim *o* of the bottom *g* into the shell at *p*.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is—

1. In a cartridge with front priming the combination of the perforated disk *c*, a cartridge-shell having a shoulder for supporting the disk, a tube *d* fixed to the disk, a primer within the tube, a priming-pin *f* also within the tube and the cartridge-bottom *g* separate from but carried by the tube, substantially as described.

2. In combination with a cartridge-shell, a bottom comprising two portions permanently carried by said bottom and adapted to be attached as one body to the shell, one portion of the said bottom passing into the shell to fill the end of the same and lie against the inner wall thereof as the bottom is placed in connection therewith and the other portion extending as a rim along the outside of the shell and pressed into the same, substantially as described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

HERMANN HENNEBERG.

Witnesses:
WILHELM WEIDNER,
HERMANN BARTSCH.