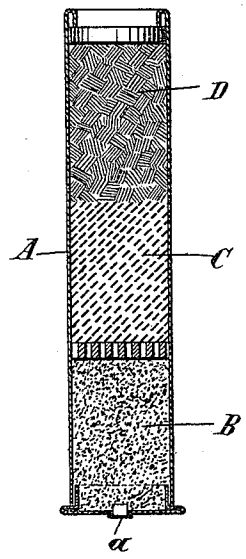
No. 621,553. Patented Mar. 21, 1899.

B. BEHR.

CYCLIST'S CARTRIDGE.

(Application filed June 2, 1898.)

(No Model.)



Witnesses:
Anton A. Gloetzner.
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UNITED STATES PATENT OFFICE.

BURKARD BEHR, OF BENDLIKON, SWITZERLAND.

CYCLIST'S CARTRIDGE.

SPECIFICATION forming part of Letters Patent No. 621,553, dated March 21, 1899.

Application filed June 2, 1898. Serial No. 682,356. (No specimens.)

To all whom it may concern:

Be it known that I, BURKARD BEHR, a citizen of the Russian Empire, residing at Bendlikon, near Zurich, Switzerland, have invented an Improvement in Cyclists' Cartridges, of which the following is a specification.

This invention has for its object a cartridge more particularly intended for cyclists' use in order to scare and drive away dogs and the like, which become troublesome when riding.

The improved cartridge is shown in vertical section in the accompanying drawing.

The cartridge is composed of an ordinary case A—for instance, such as is employed for blasting-cartridges—with a primer-cap *a* inserted in the bottom, so that the cartridge may be discharged from an ordinary revolver. The charge of the cartridge, however, consists one-third of gunpowder B, one-third of magnesium flush powder D, and one-third of granulated sulfur C.

The discharge of the cartridge produces an explosion and then a long flame shooting out of the barrel.

As is well known, magnesium powder does not ignite at a very low temperature and a flame is usually required to ignite it, or, in other words, the same is the more readily ignited by a flame than by any other source of heat. In the case of my improved cartridge the quick or instantaneous flame or flash produced by the explosion of the gunpowder would be insufficient to ignite the magnesium powder, and I therefore interpose the sulfur between the gunpowder and the magnesium powder. Sulfur ignites at a much lower temperature than magnesium, and it generally burns with a flame and also for a longer period of time than gunpowder or other similar explosive. By the use of the sulfur, therefore, the ignition of the magnesium powder is insured, and the desired flame is caused to issue from the cartridge whenever the latter is exploded.

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. A cartridge having an exploding ignitible charge consisting of a layer of explosive material, a layer of sulfur, and a layer of magnesium.

2. A cartridge having an exploding ignitible charge consisting of a layer of gunpowder, a layer of sulfur, and a layer of magnesium powder in about the proportions of one-third of each.

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

BURKARD BEHR.

Witnesses:

A. M. LIEBERKNECHT,

CLIFE CILUL.