

J W. SMITH.

Cartridge.

No. 52,370.

Patented Jan. 30. 1866.

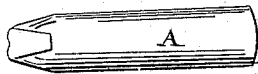


Fig. 1.



Fig. 2.



Fig. 3.



John W. Smith  
Per his Atty

Witness { Amos Broadnax  
Peter D. K. May  
Chas. Phelps

# UNITED STATES PATENT OFFICE.

JOHN W. SMITH, OF IOWA POINT, KANSAS, ASSIGNOR TO HIMSELF, MORRIS PRINCE, JOS. BACHRACH, AND LEWIS HIDELEBERGER.

## IMPROVEMENT IN CARTRIDGES FOR FIRE-ARMS.

Specification forming part of Letters Patent No. 52,370, dated January 30, 1866.

### *To all whom it may concern:*

Be it known that I, JOHN W. SMITH, of Iowa Point, in the State of Kansas, have invented certain new and useful Improvements in Gun-Cartridges; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the annexed drawing, making part of this specification, in which—

Figure 1 is a plane elevation; Fig. 2, a longitudinal section, and Fig. 3 an end elevation of my improved cartridge.

The object of my invention is to provide means for introducing the detonating or igniting powder into the center of the cartridge, so as to insure a more perfect consumption of the powder composing the cartridge.

My invention consists of a cartridge made either of loose, dry powder, or of compressed powder with a wire-gauze tube introduced in the rear end thereof, thus leaving a cylindrical cavity in the longitudinal axis of the cartridge for the fulminating or igniting powder to enter and explode the cartridge from the center.

To enable others skilled in the arts to which my invention appertains to make and use it, I will proceed to describe the manner of making and applying the same. The drawing illustrates a cartridge made of dry powder.

A represents a paper tube or case; B, the bullet; C, the powder, and D the wire-gauze tube.

The cartridge is made by first making the paper tube with an end or bottom having a single perforation in it to match the hole in the gauze tube, which is made with a flange on its rear end so as to about fit the paper case. The tube is then introduced in the case and the powder supplied to the extent required, after which the ball or bullet is inserted and the top of the case turned over to prevent the various elements of the cartridge from dropping out.

The cartridge is applied in the ordinary manner.

Having now described the nature, construction, and the manner of using my invention, I claim and desire to secure by Letters Patent—

The use of the wire-gauze tube for the purpose of forming the cavity in the cartridge, as aforesaid.

JOHN W. SMITH.

Witnesses:

PETER D. KENNY,  
AMOS BROADWAY.