

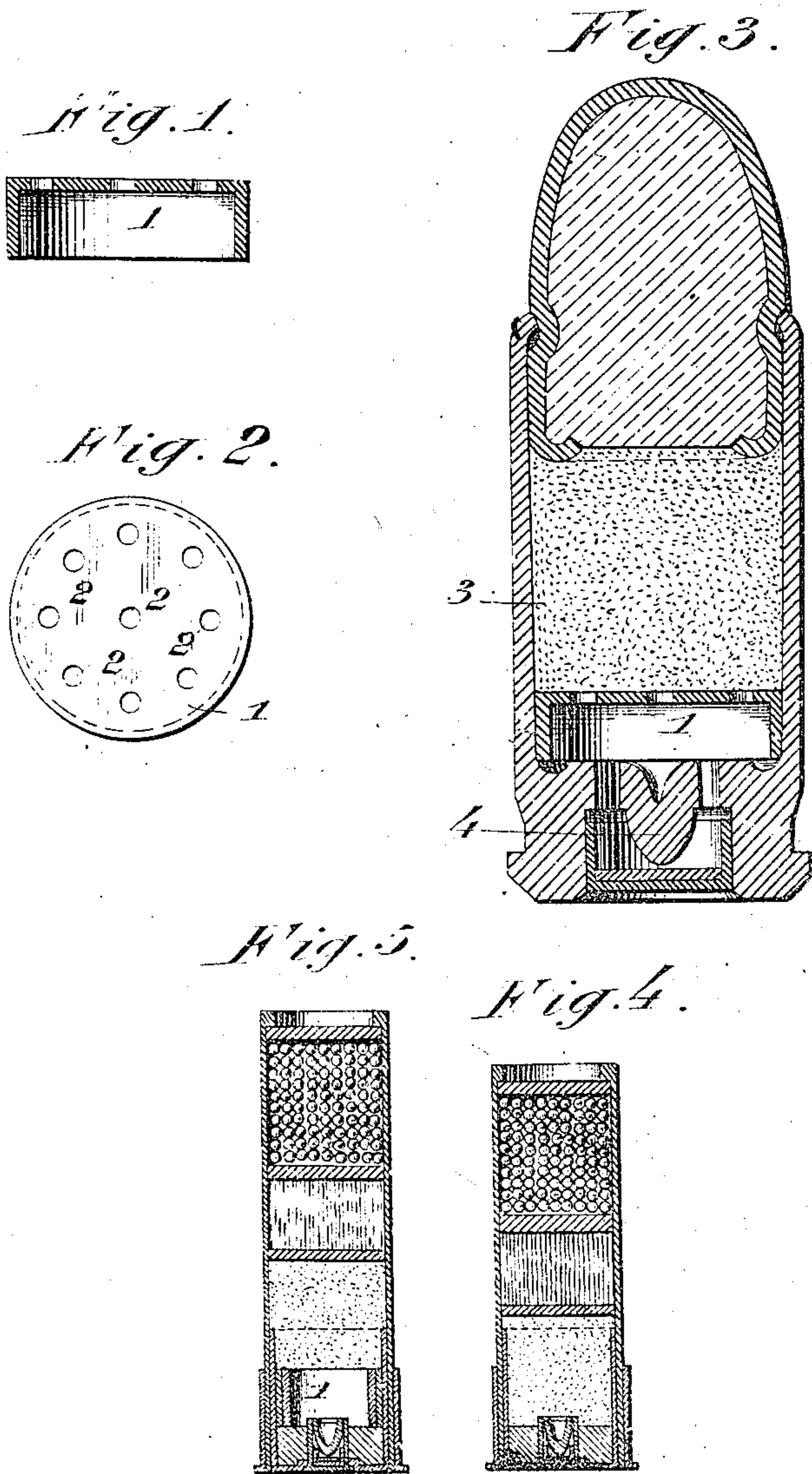
No. 682,364.

Patented Sept. 10, 1901.

J. MANGON.  
CARTRIDGE.

Application filed Feb. 21, 1901.)

No Model.)



Witnesses:

J. D. McMahon  
E. Hoffman

Inventor,

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Att'y.

# UNITED STATES PATENT OFFICE.

JACQUES MANGON, OF BRUSSELS, BELGIUM.

## CARTRIDGE.

SPECIFICATION forming part of Letters Patent No. 682,364, dated September 10, 1901.

Application filed February 21, 1901. Serial No. 48,227. (No model.)

*To all whom it may concern:*

Be it known that I, JACQUES MANGON, a subject of the King of Belgium, and a resident of Brussels, Belgium, have invented certain new and useful Improvements in and Relating to Cartridges for Firearms, of which the following is a specification.

When a cartridge is not completely filled with powder, so that when the weapon is raised previous to firing and then lowered to a horizontal position the powder is brought toward the priming of the cartridge and a free space is formed between the powder and the rear part of the projectile, it will be seen that during the firing a higher pressure is produced than if a free space were formed between the priming and the powder, while the initial velocity of the projectile will be the same in both cases. This fact has suggested the provision of means whereby a free space is always secured between the powder and the priming of the cartridge, the object thereof being to reduce the maximum pressure produced, and consequently the danger of breaking the barrel of guns or the like.

The invention consists of the novel combination of parts fully described and claimed hereinafter, reference being had to the accompanying explanatory drawings, wherein—  
Figure 1 is a sectional view of one form of embodiment of my invention. Fig. 2 is a plan view of same. Fig. 3 shows the device in position within a cartridge. Fig. 4 is a sectional view of an ordinary fowling-piece cartridge, and Fig. 5 is a similar view showing the same provided with my improvements.

Referring to Figs. 1 to 3, 1 represents a diaphragm made in the shape of a cap and

provided with perforations 2, varying in accordance with the different cartridges. Said diaphragm is inserted into the cartridge as shown in Fig. 3, so as to separate the powder 3 from the priming 4. The diaphragm 1 may be made in one piece with the socket of the cartridge or of the cap shape, as shown, the annular flange 1' forming the support, and this diaphragm may be made of any suitable material, such as metal, cardboard, silk cloth, cotton, linen, wool, guncotton, nitrified paper, provided or not with perforations, and the like.

Fig. 5 shows the insertion of the diaphragm, made of cloth, into an ordinary cartridge for fowling-pieces.

Having fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In combination with a cartridge for guns, of a perforated diaphragm adapted to be placed between the priming and the powder of the cartridge for obtaining a space between the same, said perforated diaphragm having an annular flange which forms a support for the diaphragm, substantially as described.

2. In combination with a cartridge for firearms, a diaphragm carrying an annular flange and adapted to be placed between the powder and priming of the cartridge, substantially as described.

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

JACQUES MANGON.

Witnesses:

O. SCHEI,  
GREGORY PHELAN.