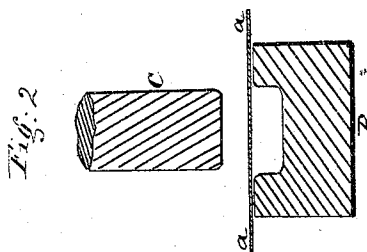
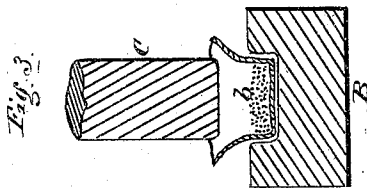
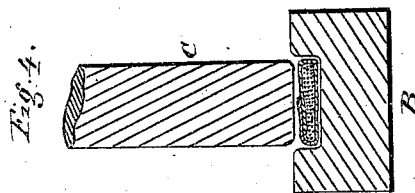


STEPHEN W. WOOD.

Improvement in Lubricating-Pellet for Fire-Arms.

No. 126,614.

Patented May 7, 1872.



Witness
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UNITED STATES PATENT OFFICE.

STEPHEN W. WOOD, OF CORNWALL, NEW YORK.

IMPROVEMENT IN LUBRICATING-PELLETS FOR FIRE-ARMS.

Specification forming part of Letters Patent No. 126,614, dated May 7, 1872.

To all whom it may concern:

Be it known that I, STEPHEN W. WOOD, of Cornwall, county of Orange, and State of New York, have invented an Improved Independent Lubricating-Pellet for Cartridges; and I do hereby declare that the following is a full and exact description thereof, and of a method of constructing the same, reference being had to the accompanying drawing making part of this specification—

Figure 1 being a view of a pellet complete; Figs. 2, 3, and 4 indicating successive steps in forming the same by means of dies and punches.

Like letters indicate corresponding parts in all the figures.

My invention consists in a pellet of plumbago, covered with a case or wrapper of tin-foil or equivalent material, that will become melted or consumed by the burning of the powder of the cartridge, so as to set the plumbago free for lubricating the barrel of the fire-arm; the said pellet to be placed in the cartridge between the powder and the ball. The pellet A is preferably to have the form of a disk, as shown, of a diameter equal to the inner diameter of the cartridge-case. The case or wrapping *a* is conveniently made of tin-foil, which not only is easily formed or wrapped around the plumbago, but melts or is consumed by the heat of the burning powder. Other materials may answer as good a purpose.

In making the pellets the dies B and C may be used as indicated. The tin-foil *a*, cut into disks or blanks of the proper size and shape, are placed centrally over the female die B, as shown in Fig. 2, and the male die or punch C

is then brought down, thereby forcing the wrapper into a cup-shape, as shown in Fig. 3. The plumbago *b* is then introduced as indicated in the same figure, the upper edges of the wrapper are next folded over the top, and may then be pressed down so as to finally shape the pellet between the dies, as shown in Fig. 4; or pellets may be filled and shaped by other means. The cartridge-case, after receiving the powder, has a pellet inserted over the same before the introduction of the ball. When the discharge of the fire-arm takes place the loose plumbago of the pellet, after the destruction of the wrapper *a*, is scattered and driven against the inside of the barrel, thoroughly lubricating the same, and obviating the necessity of employing grease or any fatty or oily substances whatever for the purpose; or the pellet may be formed by mixing the plumbago with some combustible substance which will cause the particles to cohere; but when the cartridge is exploded will be consumed by the heat of the burning powder and set the plumbago free.

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

An independent lubricating-pellet for cartridges and fire-arms, composed principally of plumbago, when kept in form substantially in the manner set forth.

STEPHEN W. WOOD.

Witnesses:

J. S. BROWN,
E. M. GALLAHER.