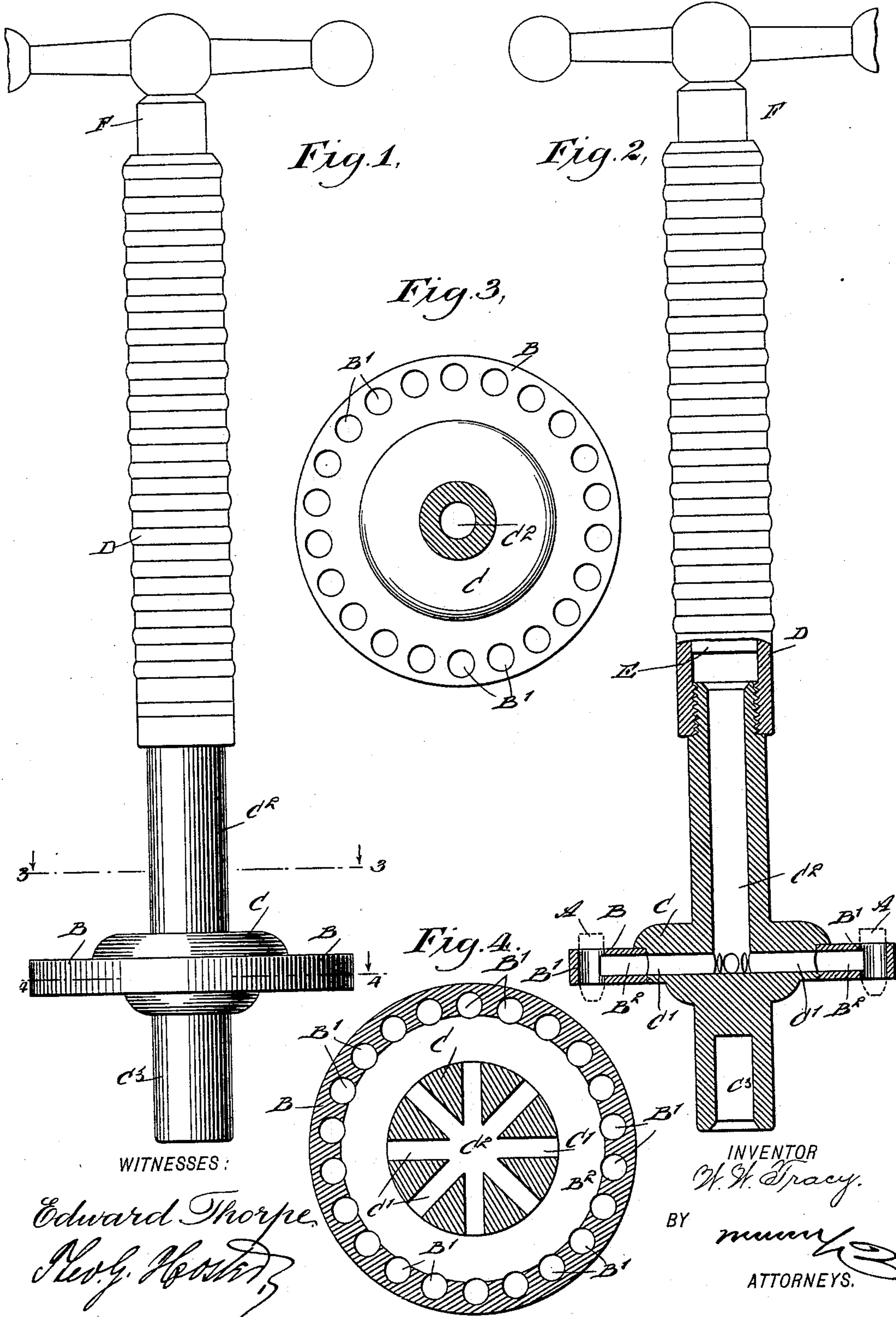


(No Model.)

W. W. TRACY.  
BULLET LUBRICATING DEVICE.

No. 585,012.

Patented June 22, 1897.





# UNITED STATES PATENT OFFICE.

WILLIAM W. TRACY, OF PITTSFIELD, MASSACHUSETTS.

## BULLET-LUBRICATING DEVICE.

SPECIFICATION forming part of Letters Patent No. 585,012, dated June 22, 1897.

Application filed February 25, 1897. Serial No. 625,035. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM W. TRACY, of Pittsfield, in the county of Berkshire and State of Massachusetts, have invented a new and Improved Device for Lubricating Bullets, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved device for lubricating bullets previous to inserting the same into cartridges, the device being very simple and durable in construction, easily manipulated, and arranged to enable the operator to quickly lubricate a large number of bullets at the same time.

The invention consists principally of a chamber adapted to contain the lubricant and opening into bores adapted to receive the bullets and means for forcing the lubricant from the chamber into the said bores and into the annular grooves formed in the bullets contained in the bores.

The invention also consists of certain parts and details and combinations of the same, as will be fully described hereinafter and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of the improvement. Fig. 2 is a sectional side elevation of the same. Fig. 3 is a sectional plan view of the same on line 3 3 of Fig. 1, and Fig. 4 is a similar view of the same on the line 4 4 of Fig. 1.

The bullets A to be lubricated are formed with the usual annular recesses adapted to receive and contain the lubricant, usually in the form of a grease in a plastic state. The bullets A are adapted to be inserted into bores B', arranged in a circle and formed in a ring B, provided with an annular chamber B<sup>2</sup>, opening into all of the bores B', as plainly shown in Figs. 2 and 4. The ring B is secured upon a head C, formed with a series of radially-arranged channels C', opening at their outer ends into the aforesaid chamber B<sup>2</sup> and terminating at their inner ends in a vertically-disposed chamber C<sup>2</sup>, carried by the head C and connected at its upper end with the barrel D of a pump provided with a

plunger E, fitted to slide in the said barrel and provided at its outer upper end with a suitable handle F to enable the operator to force the said plunger E downward to press the lubricant contained in the chamber C<sup>2</sup> out of the same and through the channels C' into the chamber B<sup>2</sup> and from the latter into the bores and into the grooves formed on the peripheral surfaces of the bullets A. Thus by a simple manipulation of the plunger E the lubricant is forced gradually into all the annular recesses formed in the bullets, so that the entire number of bullets contained in the bores are simultaneously filled with lubricant at their recesses. When this has been done, the bullets are removed and new bullets are inserted into all the bores, and the above operation is then repeated—that is, the plunger E is forced downward against the lubricant contained partly in the barrel D and chamber C<sup>2</sup>, channels C', and chamber B<sup>2</sup> to force the lubricant into the annular recesses of the bullets, as before described.

It is understood that the chamber B<sup>2</sup> at the bores B' is of such a height as to connect with all the annular recesses of a bullet, the latter extending with the remaining portions above and below the top and bottom of the ring B, so that the bore is filled and no lubricant can escape by way of the bore. The lower end of the head C is provided with a central extension C<sup>3</sup>, adapted to be fastened to a suitable stand to support the device.

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

1. A device for lubricating bullets, comprising a ring formed with bores for the reception of the bullets and with an annular chamber opening into the said bores, a head carrying the said ring and provided with a chamber containing the lubricant, and channels leading from the said chamber to the chamber in the said ring, substantially as shown and described.

2. A device for lubricating bullets, comprising a ring formed with bores for the reception of the bullets and with an annular chamber opening into the said bores, a head carrying the said ring and provided with a chamber containing the lubricant, channels leading from the said chamber to the cham-

ber in the said ring, and a pump connected with the said chamber in the head to force the lubricant into and through the same, substantially as shown and described.

5 3. The combination of a cylinder, a piston working therein, a head in connection with the cylinder having a chamber, and a ring attached to the head and having bores with which the chamber communicates, the bores  
10 being capable of receiving bullets.

4. The combination of a head having a chamber, and a member surrounding the head and having a plurality of bores respectively capable of receiving bullets, the bores com-  
15 municating with the head so as to receive a lubricant from the chamber thereof.

5. The combination of a head having a chamber, with a series of outwardly-extend-

ing channels, and an annular member surrounding the head and having bores in com- 20  
munication with the channels, the bores being capable of receiving bullets.

6. The combination of a head having a chamber and outwardly-extending channels communicating with the chamber, and an an- 25  
nular member surrounding the head and having bores communicating with the channels.

7. The combination of a head having a chamber, and a ring surrounding the head and communicating with the chamber thereof, 30  
the ring having a number of bores also communicating with the chamber.

WILLIAM W. TRACY.

Witnesses:

FRED R. SHAW,

MICHAEL L. EISNER.