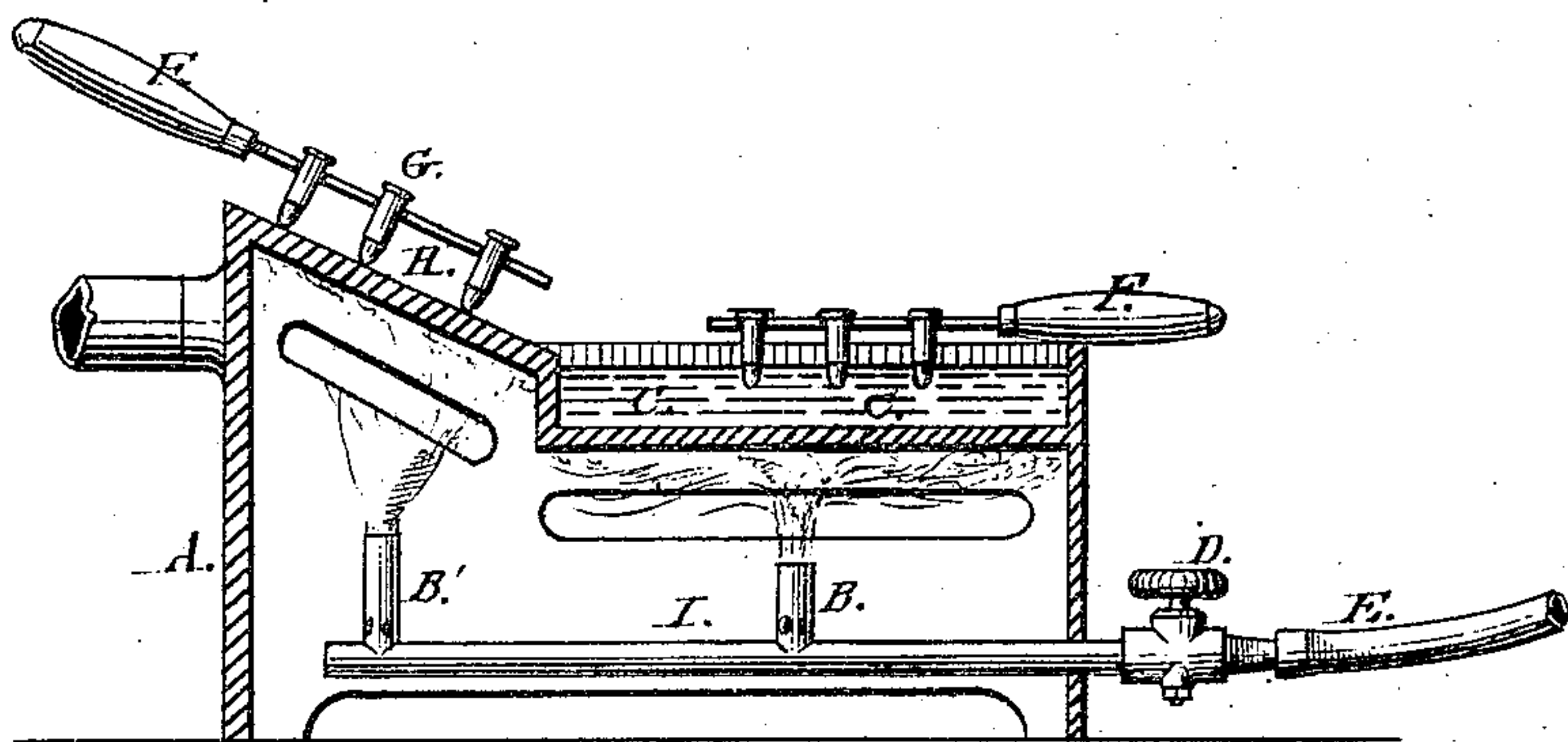


J. V. MEIGS.

Method of Lubricating Cartridges.

No. 158,960.

Patented Jan. 19, 1875.



Witnesses:

H. H. Young
Baltis & Long

Inventor:

J. V. Meigs
W. D. Baldwin his
Atty

UNITED STATES PATENT OFFICE.

JOE V. MEIGS, OF LOWELL, MASSACHUSETTS.

IMPROVEMENT IN METHODS OF LUBRICATING CARTRIDGES.

Specification forming part of Letters Patent No. **158,960**, dated January 19, 1875; application filed December 10, 1874.

To all whom it may concern:

Be it known that I, JOE V. MEIGS, of Lowell, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Cartridge-Lubricators, of which the following is a specification:

It is the object of my invention to lubricate cartridges, and to remove the surplus grease therefrom. The improvements claimed will hereinafter be set forth.

In the accompanying drawing, which shows a vertical longitudinal central section through an apparatus for carrying out my invention, A is a furnace or heating-chamber, in which a fire may be made; or it may be provided with a gas pipe or pipes, I, having jets or burners B B, a cock, D, and a gas-supply tube, E. A vat or tank, C, contains the lubricant or grease, which is melted by the heat from the furnace. An incline, H, heated by the furnace, leads from the edge of the vat to one end or side of the furnace. Air to support combustion may be admitted to the furnace through openings in its side, and the smoke and surplus heat may escape from a suitable smoke-pipe. The cartridges to be lubricated are placed in suitable frames or holders, in this instance composed of perforated plates G, with handles F. The cartridges are retained in the holes in the plates by their flanges, or by friction against the sides of the

shells. The cartridges are dipped into the liquid lubricant in the vat, and then hung up, points down, in their holders in racks, to dry, the ends of the bullets being first drawn across, or rested for a short time on, the heated surface of the incline H, to remove some of the lubricant when too thickly coated, the heat from the incline liquefying the lubricant, and causing it to run from the cartridges, thinning the coating upon them. When the lubricant has sufficiently set or solidified upon the cartridges they are rested upon or drawn across the heated incline, removing the surplus grease which has accumulated upon the ends of the bullets, which is melted upon the incline and flows into the vat, thus avoiding waste and leaving the cartridges smoothly and equally lubricated.

I claim as my invention—

The method herein described of lubricating cartridges, and removing the surplus grease therefrom, which consists in dipping the cartridges in the heated lubricant, drying them, and placing them in contact with a heated surface, substantially as set forth.

In testimony whereof I have hereunto subscribed my name.

JOE V. MEIGS.

Witnesses:

JOSEPH I. PEYTON,
B. H. MORSE.