

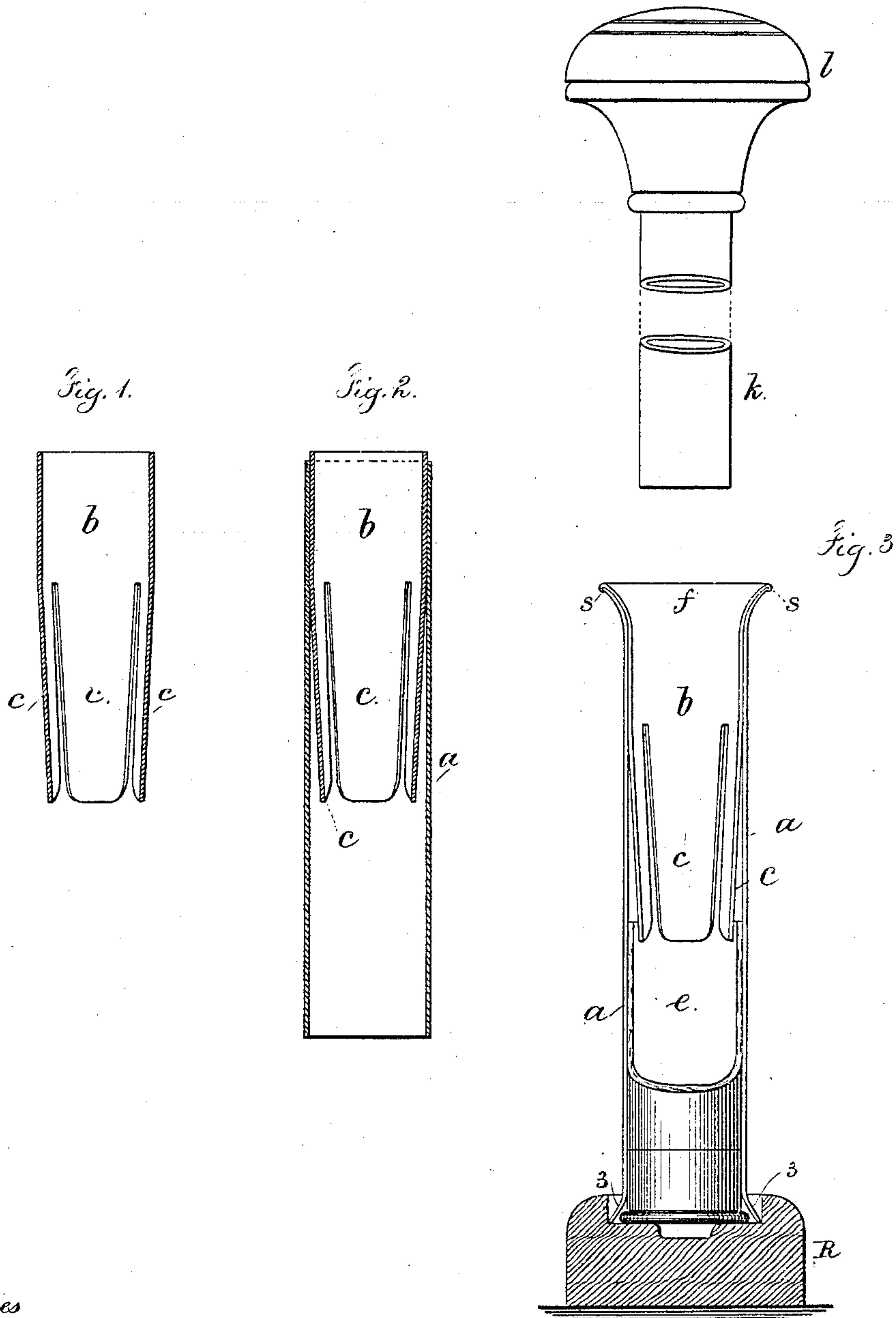
(No Model.)

J. E. LANGDON.

CARTRIDGE LOADING IMPLEMENT.

No. 272,141.

Patented Feb. 13, 1883.



Witnesses

Chas H. Smith

J. Haib

Inventor.

James E. Langdon.
for Lemuel W. Ferrell atty.

UNITED STATES PATENT OFFICE.

JAMES E. LANGDON, OF TORRINGTON, CONNECTICUT, ASSIGNOR TO THE
UNION HARDWARE COMPANY, OF SAME PLACE.

CARTRIDGE-LOADING IMPLEMENT.

SPECIFICATION forming part of Letters Patent No. 272,141, dated February 13, 1883.

Application filed October 20, 1882. (No model.)

To all whom it may concern:

Be it known that I, JAMES E. LANGDON, of Torrington, of the county of Litchfield and State of Connecticut, have invented an Improvement in Cartridge-Loaders, of which the following is a specification.

Cartridge-loaders have been made of a brass tube, within which the cartridge-case is inserted, and the upper and lower ends are flaring or trumpet-shaped; but these are separate pieces of cast metal soldered to place, which makes the loader heavy and expensive, and the solder is liable to give way and the flaring mouths to separate.

In my improvement I insert within the holder-tube a spring-protector for the upper end of the cartridge-case, which protector is tubular in the upper part and sets tightly within the outer tube, and I spread both tubes to make the bell-mouthed end to the loader, and at the same time unite both tubes firmly together, rendering it unnecessary to employ solder, and preventing the possibility of the flaring mouth breaking from the exterior tube, because the mouth and tube are in one.

In the drawings, Figure 1 is a section of the blank for the protector-tube. Fig. 2 is a section of the exterior and protector tube blanks as placed together; and Fig. 3 is a section of the loader complete and elevation of the rammer, the middle portion of the latter being removed.

The exterior tube, *a*, is usually of drawn brass. It is of an internal diameter corresponding to the external diameter of the paper or other cartridge-shell that is to be filled. The protector-tube *b* is of a size to fit tightly within the tube *a*. It is slotted longitudinally to form spring-tongues *c c*, which are bent inwardly at their lower ends, so as to enter the upper end of the cartridge-case *e*. After the tube *b* has been forced into one end of the

tube *a* the two tubes are spread by the action of dies or by spinning the metal in a lathe, so as to form the flaring mouth *f*. (Shown in Fig. 3.) This operation produces flaring ends upon both the tubes simultaneously, and they hold each other in proper relative position. It is usually best in placing the tubes together, as in Fig. 2, to leave the upper edge of the tube *b* slightly the highest, so that the metal can be spun back or turned over to form the rim *s*, Fig. 3. This flaring mouth allows the powder and shot to be poured easily into the cartridge-case, and makes an easy entrance for the wads that are rammed by the rammer *k*, on which is a head, *l*. This rammer is inserted into the cartridge-case after the powder, and again after the wads and shot have been introduced. The rammer is of ordinary construction.

In order to allow for the easy insertion of the paper cartridge-case, the lower end of the tube *a* is spread or made bell-mouthed, as at 3, and there is a base-block, *R*, upon which the cartridge-case stands while being filled.

I claim as my invention—

1. The cartridge-loader composed of the exterior tube, *a*, formed in one piece, and protector-tube *b*, spread and united at their upper ends, forming a bell-mouth, substantially as set forth.

2. A cartridge-loader formed of a single tube of metal, having both of its ends flaring, and a tubular protector having a flaring end, and springs to enter into the cartridge-case, the flaring portions of the two tubes being united, substantially as set forth.

Signed by me this 14th day of October, A. D. 1882.

J. E. LANGDON.

Witnesses:

M. B. DUNBAR,
J. F. CALHOUN.