

(No Model.)

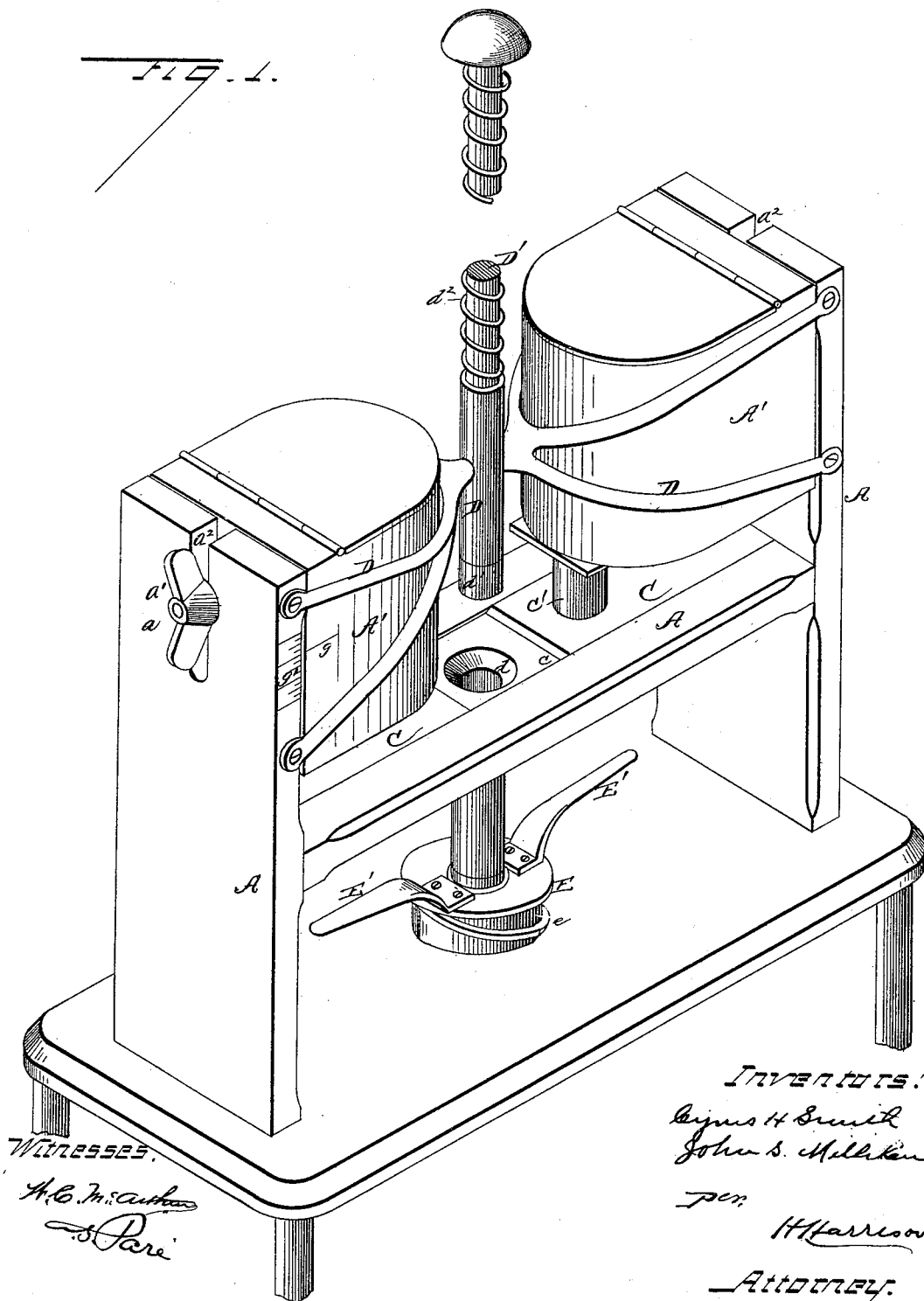
2 Sheets—Sheet 1.

C. H. SMITH & J. S. MILLIKIN.

CARTRIDGE LOADER.

No. 344,206.

Patented June 22, 1886.



Witnesses.

A. C. McCutcheon
J. S. Paré

Inventors:
Cyrus H. Smith
John S. Millikin

per

H. Harrison

Attorney.

(No Model.)

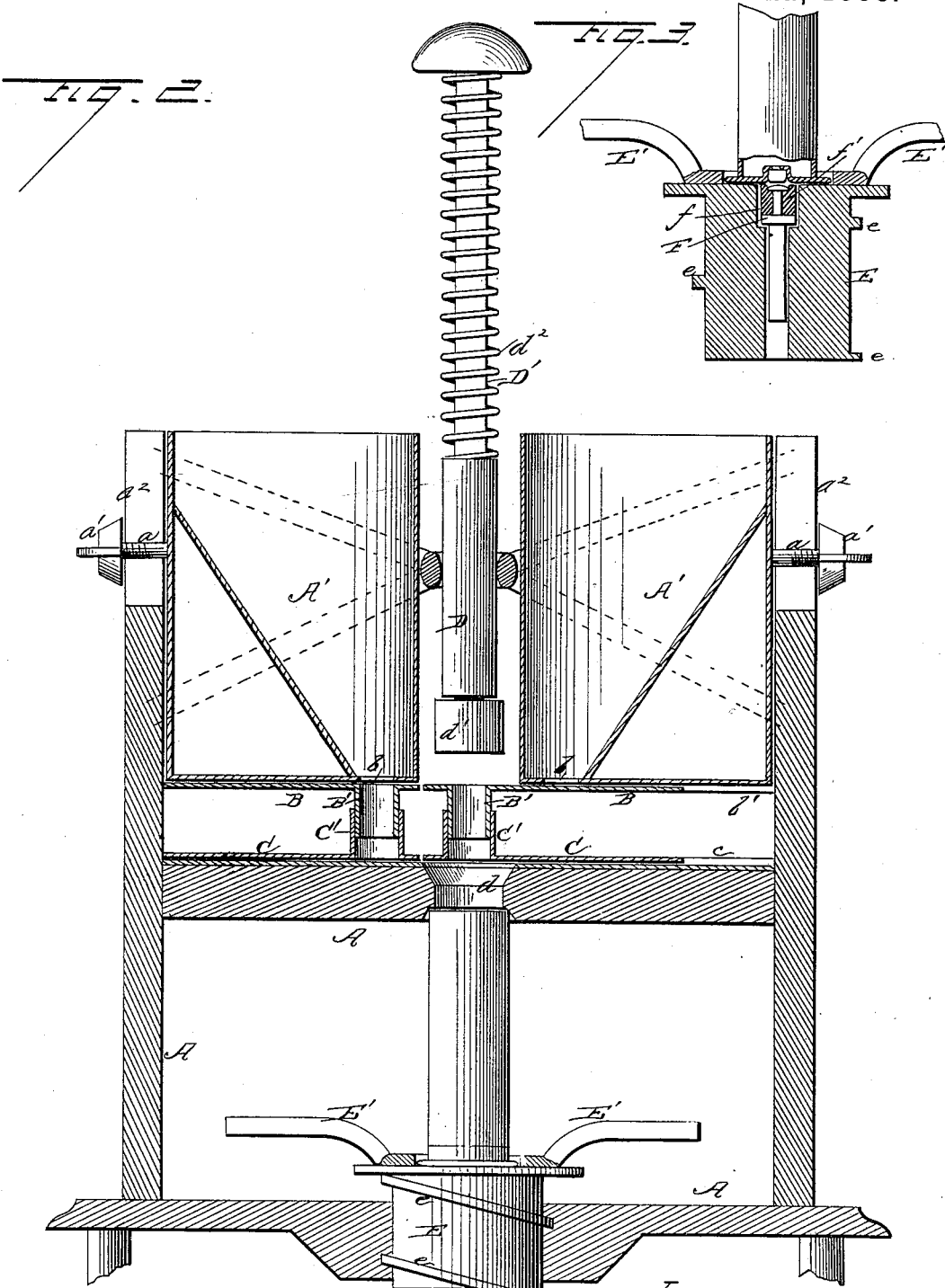
2 Sheets—Sheet 2.

C. H. SMITH & J. S. MILLIKIN.

CARTRIDGE LOADER.

No. 344,206.

Patented June 22, 1886.



Witnesses:

A. C. McArthur

W. J. Paré

Inventor:

Cyrus H. Smith

John S. Millikin

per

H. Harrison

Attorney.

UNITED STATES PATENT OFFICE.

CYRENUS H. SMITH AND JOHN S. MILLIKIN, OF BUTTE CITY, MONTANA TERRITORY.

CARTRIDGE-LOADER.

SPECIFICATION forming part of Letters Patent No. 344,206, dated June 22, 1886.

Application filed December 31, 1885. Serial No. 187,212. (No model.)

To all whom it may concern:

Be it known that we, CYRENUS H. SMITH and JOHN S. MILLIKIN, citizens of the United States, residing at Butte City, in the county of Silver Bow and Territory of Montana, have invented certain new and useful Improvements in Cartridge-Loaders, of which the following is a specification, to wit:

This invention relates to an improvement in cartridge-loading machines; and it consists in certain peculiarities in the construction and arrangement of the same, substantially as will be hereinafter more fully set forth and claimed.

In order to enable others skilled in the art to which our invention appertains to make and use the same, we will now proceed to describe its construction and operation, referring to the accompanying drawings, in which—

Figure 1 is a perspective view of our machine. Fig. 2 is a vertical section of the same, and Fig. 3 is a detail view of the device for capping the cartridges.

A represents the main frame of our machine, having two cans or receptacles, A' A', for the reception of shot and powder. These cans are provided on their rear sides with screws *a* and thumb-nuts *a'*, by which they are raised and lowered in slots *a²* in the ends of the main frame, as will be evident from the drawings. In the lower part or bottoms of each can is an opening, *b*, and in suitable guides, *b'*, on the under side is a sliding plate, B, having a tube, B', secured upon its inner end, and projecting downward. Just below the cans, in a cross-bar of the main frame, are similar guides, *c*, provided with slides C, having upwardly-extending tubes C', into which the tubes B' slide as the cans are adjusted up and down upon the frame.

In the center of the cross-bar of the main frame is a hole, *d*, having its upper end beveled, and above this, in a guide, D, is a vertically-sliding plunger, D', having its lower end formed with a head, *d'*, and its upper end provided with a spring, *d²*, as in Fig. 2. The lower end of the hole *d* is slightly recessed to receive the open end of the car-

tridge-shell, the lower end of which rests upon a block or anvil, E, having a "quick-screw" thread, *e*, working in the main frame, and a handle, E', by which it is turned to raise and lower it to clamp the shell in position. In a shouldered opening, *f*, through this anvil is placed a capping-pin, F, the upper end of which is provided with a rubber buffer, *f'*, to prevent exploding the cap, as in Fig. 3. The cans are each upon one side provided with a mark, *g*, and the frame adjacent with a series of graduated marks, *g'*, for setting the machine to feed to the cartridge the desired amount of powder or shot. The powder being placed in one can and shot in the other, enough falls into the tubes B' C' to fill them, as will be evident. The shell is then placed upon the anvil, and a partial turn of the same lifts it and clamps the cartridge-shell in position. One of the slides or pairs of slides is then drawn out till the contents of the tube fall into the shell, the slides pushed back, and a wad, being placed in the beveled end of the hole *d*, is driven home by depressing the plunger, which is at once withdrawn by its spring. The other tube and slides are then drawn out with shot, and a wad again driven home, the exact quantity of both powder and shot being accurately gaged by the tubes, and all the parts being handily arranged for quick work, as will be evident. The capping-pin F is not usually placed in the anvil till wanted for use, and the cap being placed upon it, the shell is forced down by the plunger and the cap inserted. The rubber buffer forms a cushion for the cap and prevents its explosion, while affording sufficient strength to force the cap home to place. This plug is removed when loading, and thus the cap has nothing to strike and explode it during that operation. The proper adjustment of the cans in the main frame draws out or closes the tubes B' C' and gages the amount of powder or shot which they will contain.

Having thus fully described our invention, what we claim as new, and desire to secure by Letters Patent, is—

In a cartridge-loading device, the main

50

55

60

55

70

75

80

85

90

95

frame A, having slots a^2 , plunger D', and anvil E, having a quick screw, in combination with the cans A', having the screws a and nuts a' , and the sliding plates B C, having telescoping tubes B' C', all constructed and arranged to operate substantially as and for the purpose set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

CYRENUS H. SMITH.
JOHN S. MILLIKIN

Witnesses:

JAMES M. FISH,
JOHN P. REINS.