2 Sheets—Sheet 1.

G. S. SLOCUM.

Cartridge-Loading Machine.

No. 208,935. **Patented Oct. 15, 1878.**

Fig. 1.

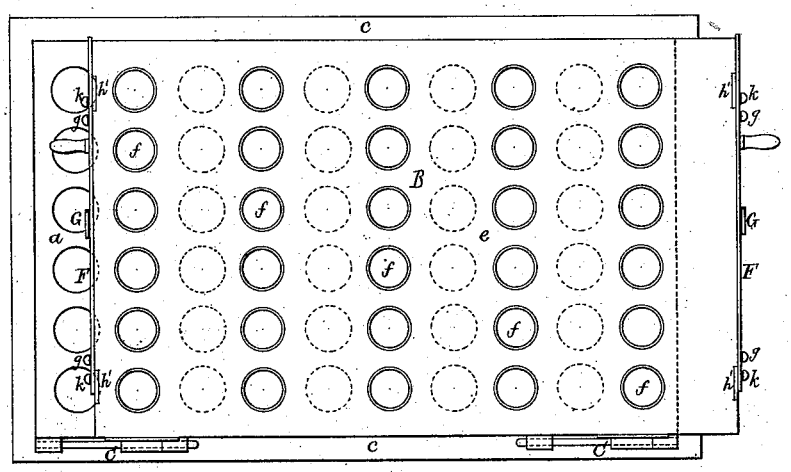


Fig. 3.

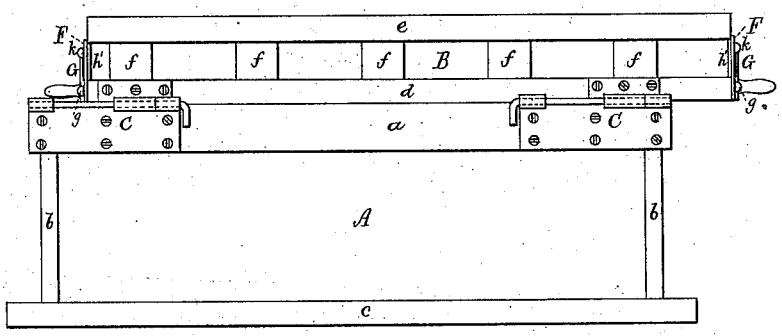
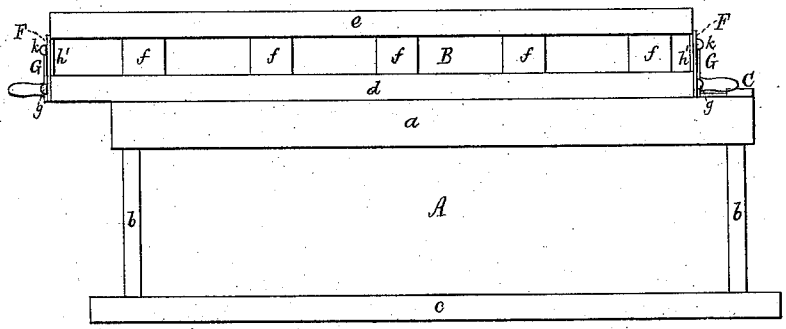


Fig. 2.



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Cartridge-Loading Machine.

No. 208,935. Patented Oct. 15, 1878.

Fig. 4.

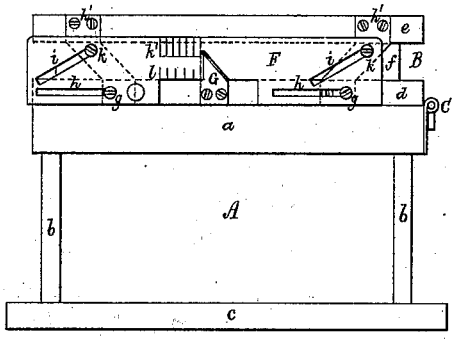


Fig. 5.

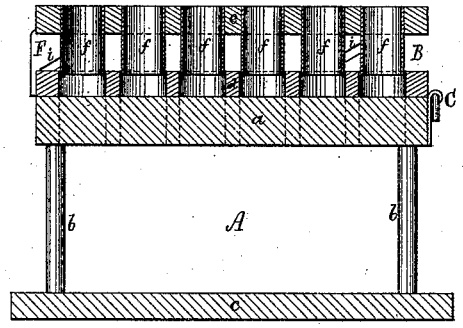
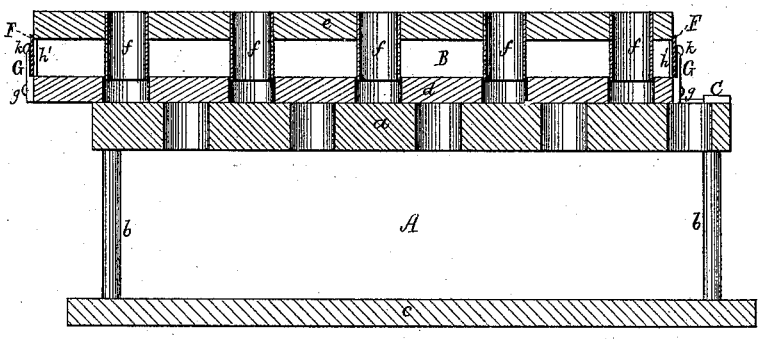


Fig. 6.



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UNITED STATES PATENT OFFICE.

GEORGE S. SLOCUM, OF NEWPORT, RHODE ISLAND.

IMPROVEMENT IN CARTRIDGE-LOADING MACHINES.

Specification forming part of Letters Patent No. **208,935**, dated October 15, 1878; application filed September 12, 1878.

To all whom it may concern:

Be it known that I, GEORGE S. SLOCUM, of Newport, of county of Newport, of the State of Rhode Island, have invented a new and useful or Improved Mechanism for Loading Cartridge-Shells; and do hereby declare the same to be described in the following specification and represented in the accompanying drawings, in which—

Figure 1 is a top view, Fig. 2 a front elevation, Fig. 3 a rear view, Fig. 4 an end elevation, Fig. 5 a transverse section, and Fig. 6 a longitudinal section, of it.

The machine or apparatus hereinafter described is for loading with powder and shot, or with powder alone, the shells of cartridges of fire-arms, and with it such can be accomplished very effectually and expeditiously.

My invention consists, first, in the combination of the series of measures and their carrier and perforated plate, and mechanism for adjusting and supporting such carrier and perforated plate at different distances asunder, as and for the purpose or purposes hereinafter set forth; second, the movable charger and the cartridge-shell carrier, combined by means of stop-hinges or mechanism for so connecting them as to permit the charger to be turned upward off or moved laterally on the shell-carrier, substantially as and for the purpose or object explained.

In the drawings, A represents the shell-carrier, which, as shown, consists of a plate, *a*, perforated with a series of holes for receiving the cartridge-shells. This carrier is supported on posts *b*, extending up from a base or plate, *c*, on which the lower end of the shell may rest.

The posts used may be of such length as the cartridge-shells to be filled may require, in order for them to rest at their lower ends on the base-plate; or the carrier may be supported over the base-plate by screws or other proper devices, to enable its altitude above the plate to be adjusted as occasion may require.

Over the cartridge-shell carrier A is the charger B, which, as represented, is a movable one, it being capable of being varied or adjusted so as to supply the shells with greater or less charges of powder or shot, as they may require. It, however, may be a single plate of sufficient thickness, provided with measuring-holes or chambers, or measures, arranged directly over the shell-receiving holes of the shell-carrier. The lower plate, *d*, of the charger is connected to the shell-carrier by hinges C C, constructed as shown—that is, so made as to admit of the plate being moved laterally or endwise on the shell-carrier, and stopped so as to bring each charge-chamber either directly over or to carry it entirely off its shell-receiving hole of the carrier, such carrier being so constructed as to close the bottom of each charge-chamber when the chamber is so moved off its cartridge-shell-receiving opening.

Over the plate *d* is another plate, *e*, provided with a series of measures or tubes, *f*, arranged in it, as shown, and extending from it down into and fitting into the holes of the plate *d*, as represented. To increase the charge of each measure, the plate *e* is to be raised; and to decrease such charge, the plate *e* is to be depressed relatively to the plate *d*.

To the end of the plate *d* a slide-plate, F, is fixed by screws *g g* going through rectilinear slots *h h* in the plate. This plate extends upward and laps on the next adjacent end of the plate *e*, and is connected therewith by studs *k k*, projecting from the plate *e*, or short plates *h' h'*, fastened thereto, and going into or through inclined slots *i i*, arranged in the plate F, as shown. The plate F has powder and shot scales *k' l* arranged on it, as represented, to operate with an index, G, projecting up from the plate *d*.

In order to charge a series of cartridge-shells by the machine, they are first to be placed in the holes of the carrier A, the charger B being raised to allow of such, after which such charger should be turned down and moved endwise, so as to cover all the mouths of the shells and have its measures closed at their lower ends. Next, the measures are to be filled with powder, after which the charger is to be moved back to place, so as to enable the various powder-charges of the measures to fall into the shells, which having taken place, the charger should be raised up off the shell-carrier, and a wad should be inserted in each of the shells and forced down upon the powder therein. Next, the charger

should be moved down and endwise, as before, and its measures should be supplied with shot. This having been accomplished, the charger should be slid endwise in the opposite direction, so as to enable the charges of shot to fall from it into the shells. Finally, the charger should be raised off the shell-carrier and a wad should be put in each shell, so as to confine the shot in place therein.

Before my invention mechanism for loading cartridge-shells has been provided not only with a carrier for the shells and a charger for supplying such shells with powder, but with devices for varying the depth of the charge-chambers of the charger. My invention relates to such devices, and is additional thereto; and, therefore,

What I claim is as follows, viz:

1. The combination of the series of measures *f* and their carrier *e* and perforated plate *d* with mechanism—viz., the slotted slide-plate F, studs *k k*, and index G—for adjusting and supporting such carrier *e* at different altitudes above the plate *d*, all being substantially as set forth.

2. The movable charger and the cartridge-shell-carrier, combined by means of stop-hinges C C, as described, or their equivalents, to enable the charger to be operated and stopped, as explained.

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