(No Model.) 2 Sheets—Sheet 1.

A. S. GIBSON.

CARTRIDGE LOADER.

No. 385,611. Patented July 3, 1888.

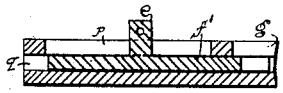

Fig. 3

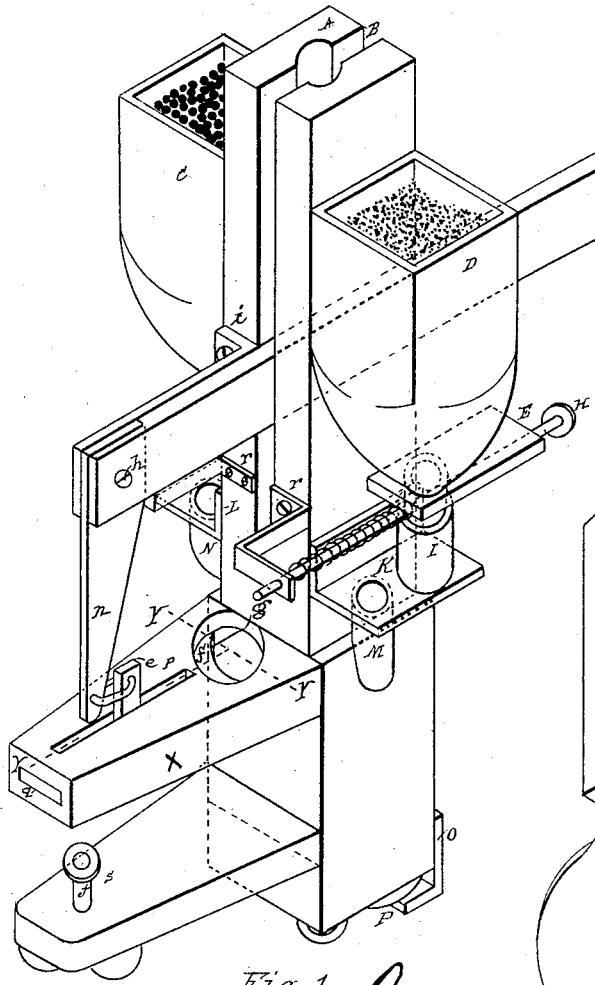

Fig. 1

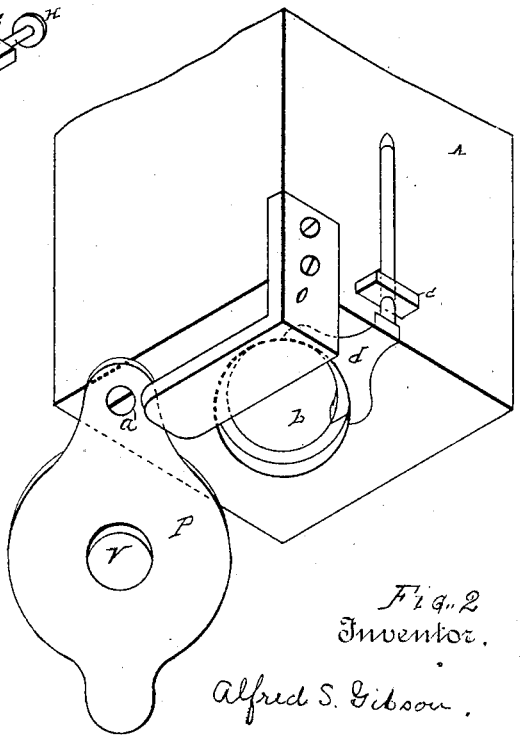

Fig. 2

Witnesses.
Chas. E. Lothrop.
E. Hesselbacher.

Inventor.
Alfred S. Gibson.
By his Attorney
Geo. H. Lothrop.

(No Model.)

2 Sheets—Sheet 2

A. S. GIBSON.

CARTRIDGE LOADER.

No. 385,611. Patented July 3, 1888.

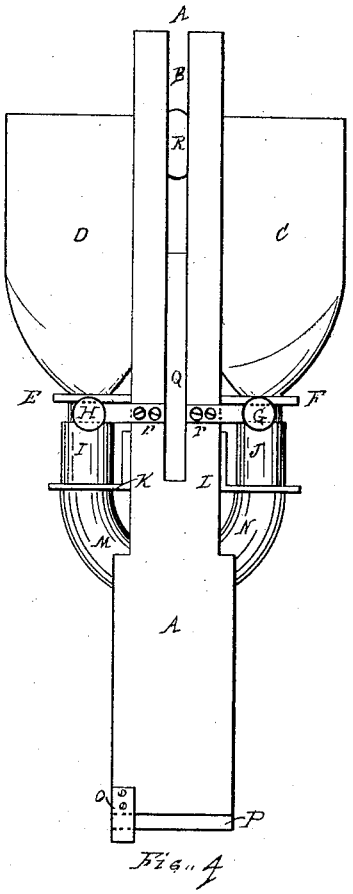

Fig. 4

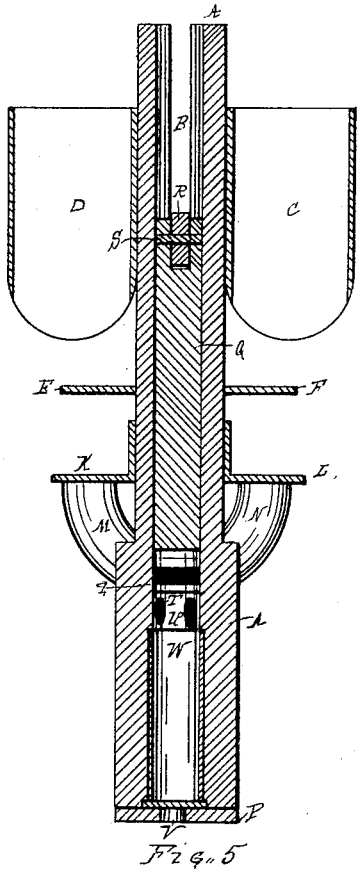

Fig. 5

Witnesses.
C. Hesselbacher.

Inventor.
Alfred S. Gibson.
By his Attorney.
Geo. S. Lothrop.

UNITED STATES PATENT OFFICE.

ALFRED S. GIBSON, OF ALMA, MICHIGAN.

CARTRIDGE-LOADER.

SPECIFICATION forming part of Letters Patent No. 385,611, dated July 3, 1888.

Application filed January 20, 1888. Serial No. 261,346. (No model.)

To all whom it may concern:

Be it known that I, ALFRED S. GIBSON, of Alma, in the county of Gratiot and State of Michigan, have invented a new and useful Improvement in Cartridge-Loaders, of which the following is a specification.

My invention consists in an improved cartridge-loader, hereinafter fully described and claimed.

Figure 1 is a perspective of the loader. Fig. 2 is a perspective of the bottom of the loader. Fig. 3 is a sectional detail on the line Y Y Y, Fig. 1. Fig. 4 is a rear elevation of the loader, and Fig. 5 is a vertical section through Fig. 4.

A represents the body of the loader, having a central bore, the lower end of which (shown at W) is made to receive the cartridge to be loaded, having at its upper end a shoulder and tapering portion for the usual purpose of compressing the wad before entering the cartridge. The upper end of the loader is slotted, as shown at B.

s represents a bracket projecting from the lower part of the loader, and having in it a thumb-screw, *f;* and X represents another bracket secured to and projecting from the front of the loader, and by means of these two brackets and the thumb-screw the loader can be clamped to a table.

D represents a vessel of any suitable size or shape for containing powder, secured to one side of the loader and having an opening in its bottom.

E represents a plate having a hole therethrough and fastened on the sliding rod H, which runs in guides *r* in such manner that said plate E can be moved backward or forward, so that in the position shown in Fig. 1 a hole through said plate will register with the opening in the bottom of the vessel D, so that said plate will close the opening in the bottom of the vessel D when moved by moving rod H. A spiral spring on said rod H tends to keep the opening in the plate E constantly under the opening in the bottom of the vessel D.

I represents a powder-charger, consisting of a hollow cylinder of the capacity desired, the upper end of which is secured to the under side of said plate E, and the lower end of said charger I rests and slides on a plate, K, secured to and projecting from the side of the loader. The plate K has a hole therethrough, and from this hole a tube, M, leads through the side of the loader and discharges into the central bore thereof at point T, just above the cartridge-chamber W.

It is evident that when there is powder in the vessel D it will pass through the opening in the bottom of said vessel and fill the charger I, and that when the rod H is moved far enough the contents of the charger I will be discharged through tube M into a shell placed in chamber W, and that on releasing rod H it will be forced back by the spiral spring, and charger I will be returned in position to be again filled with powder from vessel D.

C represents a vessel similar to D to contain shot, provided with a sliding plate, F, rod G, charger J, plate L, and tube N, opening into the central bore at U like the corresponding parts, E, I, H, K, and M, connected with vessel D, and operating in the same manner, to cut a prescribed load of shot into the cartridge.

Q represents a rammer adapted to play in the bore of the loader, and pivoted at S to a lever, R, which is pivoted at *h* to a bracket, *i*, secured to and projecting from the loader, and the object of this rammer is to force wads down into a cartridge placed in the chamber W. The bracket X has a slot, *q*, therein, which communicates with the bore of the loader above the points U T. Through the upper part of the bracket X near the loader is a hole, *g*, which communicates with the slot *q*, and also a slot, *p*.

f' represents a slide adapted to play in the slot *q*, and having an upwardly-projecting lug, *e*, which plays in the slot *p*.

n represents an arm secured to the end of the lever R and projecting downward from said lever, its lower end being connected with the lug *e*, as by a link, as shown in Fig. 1. The hole *g* is made large enough to receive a wad, and when a wad is dropped into the hole *g* it rests on the bottom of the slot *q*, and when the handle of the lever R is raised the arm *n* moves the slides *f'* and pushes the wad into the bore of the loader in position to be forced down into the shell by rammer Q.

By constructing the bracket X and its slide as described the wad lies loosely upon the bot-

tom, and is pushed forward by the slide, and consequently is not liable to get wedged and to stick, as where a circular cup or recess is made to receive it. Furthermore, it is more easily removed, if necessary from any cause. The slide itself is also steadier in its movement when inclosed within the bracket, and has its lug *e* braced and guided by the slot in the bracket.

O represents an angle-iron secured to the side of the loader and projecting under the bottom, and P represents a plate having a hole, V, therethrough, to prevent pressure on the cap of the cartridge while ramming the wad home, and is pivoted to the bottom of the loader at *a*, so that when a cartridge is placed in the chamber W the plate P can be swung around under the cartridge, its free end being supported by the angle-iron O, and can be swung back to remove the loaded cartridge.

d represents an extractor substantially like those used in breech-loading guns, whose stem passes through a guide, *c*, attached to the loader, and which may be used to extract a loaded cartridge.

The operation of the device is obvious.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination of the body A, having a cartridge-receiving bore, the laterally-projecting bracket X, having the longitudinal slot *p* and wad-receiving orifice *g*, the slide *f'*, arranged within the bracket, and having the lug *e* projecting upward through the slot in the bracket, the rammer Q, and the lever R, having a pendent arm, *n*, pivotally connected with the lug on the slide, substantially as described.

2. The combination of the body A, having a cartridge-receiving bore, the lateral plates K and L, having orifices, the tubes M and N, leading from said orifices into the bore, the shot and powder vessels C and D, the horizontally-sliding plates E and F, located under the shot and powder vessels, and having orifices provided with pendent tubular chargers I and J, moving above the lateral plates, a wad-slide, *f'*, a rammer, Q, and the pivoted lever R, having an arm, *n*, connected with the wad-slide, substantially as described.

3. The combination of the body A, having a cartridge-receiving bore and lateral powder and shot entrances T and U, the lateral plates K and L, having orifices, and tubes M and N, connecting their orifices with said powder and shot entrances, the shot and powder vessels C D on the body, the spring slide-plates E and F under said vessels, having chargers I J, movable above the lateral plates, the lateral bracket X, having the slot *p* and wad-receiving orifice *g*, the wad-slide *f'*, located within the bracket, and having the lug *e* projecting up through the slot, the rammer Q, and the pivoted lever R, having the arm *n*, to act on the lug of the wad-slide, substantially as described.

4. The combination, with the body A of a cartridge-loader, having a central bore and a cartridge-receiving chamber, W, at its lower end, of the swinging plate P, pivoted directly to the lower end of the said body at the lower end of the cartridge-chamber, and having the orifice V, and the angle-iron O, secured to the body A, and serving as a guide and brace to the swinging plate P, substantially as described.

5. The combination, with the body A of a cartridge-loader, having a bore and a cartridge-receiving chamber, W, at its lower end, of a cartridge-extractor, *d*, carried by the body and movable outward from the lower end thereof to remove the charged cartridge, substantially as described.

6. The combination, with the body A, having a central bore and lateral powder and shot inlet orifices, of the horizontal bracket X, containing the slot *q*, communicating with the bore of the body and provided in its top side with the slot *p* and wad-receiving orifice *g*, the wad-slide *f'*, located within the bracket, and having a lug, *e*, projecting outward through the top slot of the bracket, the rammer Q, and the pivoted lever R, having a pendent arm, *n*, acting upon the lug of the wad-slide, to advance the latter and move the wad into the central bore of the body, substantially as described.

7. The combination, with the body A of a cartridge-loader, having a bore and a cartridge-receiving chamber, W, at the lower end thereof, of the plate P, pivoted directly to the lower end of the body and having the orifice V, and the angle-iron O, secured to the body and extending under the same beneath the pivoted plate to sustain the latter, substantially as described.

ALFRED S. GIBSON.

Witnesses:
CHAS. DAVIS,
WM. S. TURCK.