

A. L. BAUSMAN.
Gun Barrel.

No. 57,846.

Patented Sept. 11, 1866.

Fig. 1.

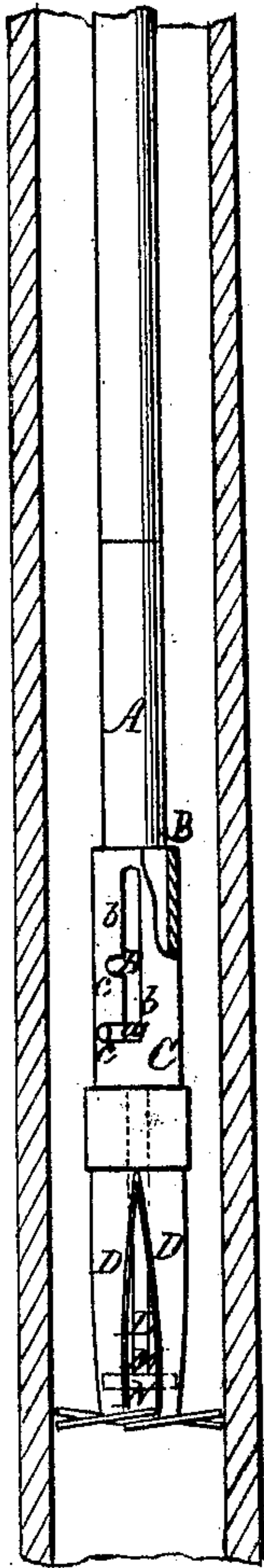


Fig. 2.



Witnesses

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UNITED STATES PATENT OFFICE.

A. L. BAUSMAN, OF MINNEAPOLIS, MINNESOTA.

IMPROVEMENT IN EXPANDING SCRAPERS FOR CLEANING GUN-BARRELS.

Specification forming part of Letters Patent No. 57,846, dated September 11, 1866.

To all whom it may concern:

Be it known that I, A. L. BAUSMAN, of Minneapolis, Hennepin county, Minnesota, have invented a new and useful Improvement in Gun-Scrapers; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

The present invention consists, principally, in so attaching the scrapers to one end of a ramrod or other suitable rod for inserting them in the barrel of a gun that, when the scrapers have reached the breech or bottom end of the bore of the gun-barrel, they can, by simply turning the ram or other rod to which they are attached in the proper direction therefor, be then expanded and brought to bear against the sides of the barrel, so that if the ramrod be then drawn out of the gun-barrel they will act upon, and, scraping its sides, completely clean, the gun-barrel, drawing all its scrapings or parts removed before it, and thus delivering them at the muzzle end of the gun, as will be obvious from the following detail description of my invention, reference being had to the accompanying plate of drawings, in which—

Figure 1 is a central section through a portion of the barrel of a gun, showing my improved gun-scraper in side view, and Fig. 2 a view of the inner end of the scraper.

Similar letters of reference indicate like parts.

A in the drawings represents a rod, which may be the ordinary ramrod of a gun or any other suitable rod of sufficient length to be used in the barrel of a gun. On one end of this rod is secured a ferrule or cap, B, having two projecting pins or studs, *aa*, one upon each side and at points diametrically opposite to each other, by which pins the rod is engaged with the slots *b*, having notches *c c*, of a sleeve, C, these slots extending in the direction of its length. To the lower end of the sleeve C spring-arms D are secured, all of an equal length, and terminating at their lower ends in bent right-angular flanges or lips E, circular shaped upon one end, and when thrown

out or expanded, as will be presently explained, forming a complete circle, or nearly so, these flanges constituting the scrapers.

To the center of the lower end of the rod A, and extending in the same direction therewith, a spindle, I, is secured, having upon its outer end, M, a disk or cap plate, N, that, according as the said rod A is either pushed into or out of the sleeve surrounding its lower end, moving in the slots of such sleeve, is either brought to bear upon the inside of the spring-arms or scrapers or withdrawn therefrom, thus, in one case, throwing them out or expanding them, and in the other allowing them to spring inward by their own action, the spring-arms, when expanded, being there held by interlocking the pins *a* of the ramrod with the lower notches in the sleeve surrounding said rod, and the disk-plate N being held free from the spring-arms by interlocking it with the upper notches of the sleeve hereinbefore referred to.

To use a gun-scraper constructed and having its several parts arranged as above explained, the ramrod having it attached to one end is placed in the bore of the barrel by its scraper end first, (the cap-plate of the rod being relieved from the scraper-arms,) when, the breech or bottom end of the barrel having been reached, the ramrod is then turned around in its sleeve sufficiently to release its pins from the upper notches of such sleeve, when, depressing or pushing the ramrod down, the spring-arms are caused to be thereby expanded and brought to bear against the inner sides or interior of the barrel, where, securing them by turning the ramrod in the proper direction to bring its pins into the lower notches of the sleeve, the ramrod is then to be drawn out of the barrel, against the sides of which, by its scrapers, it acts, scraping and cleaning the same, and carrying the scrapings or parts removed before it, from whence they are delivered or discharged from the barrel at its muzzle end, when, replacing the scraper in the barrel, as before, it can be again scraped, and so on until the barrel is cleaned or scraped to the desired degree.

It will be observed, in conclusion, that when the scrapers are expanded their corners will

stand out from each other, whereby, if the scraper be then turned around in the lower end of the gun-barrel, it will act like an auger, as it were, to bore out what dirt there is in such end of the barrel.

I claim as new and desire to secure by Letters Patent—

The rod A, or its equivalent, having a slot-
ted and notched sleeve, C, hung upon pins or

studs of its lower end, and a spindle, I, capped at its end, in combination with the spring or scraper arms D, when the several parts are arranged and connected together substantially in the manner and for the purpose described.

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Witnesses:

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