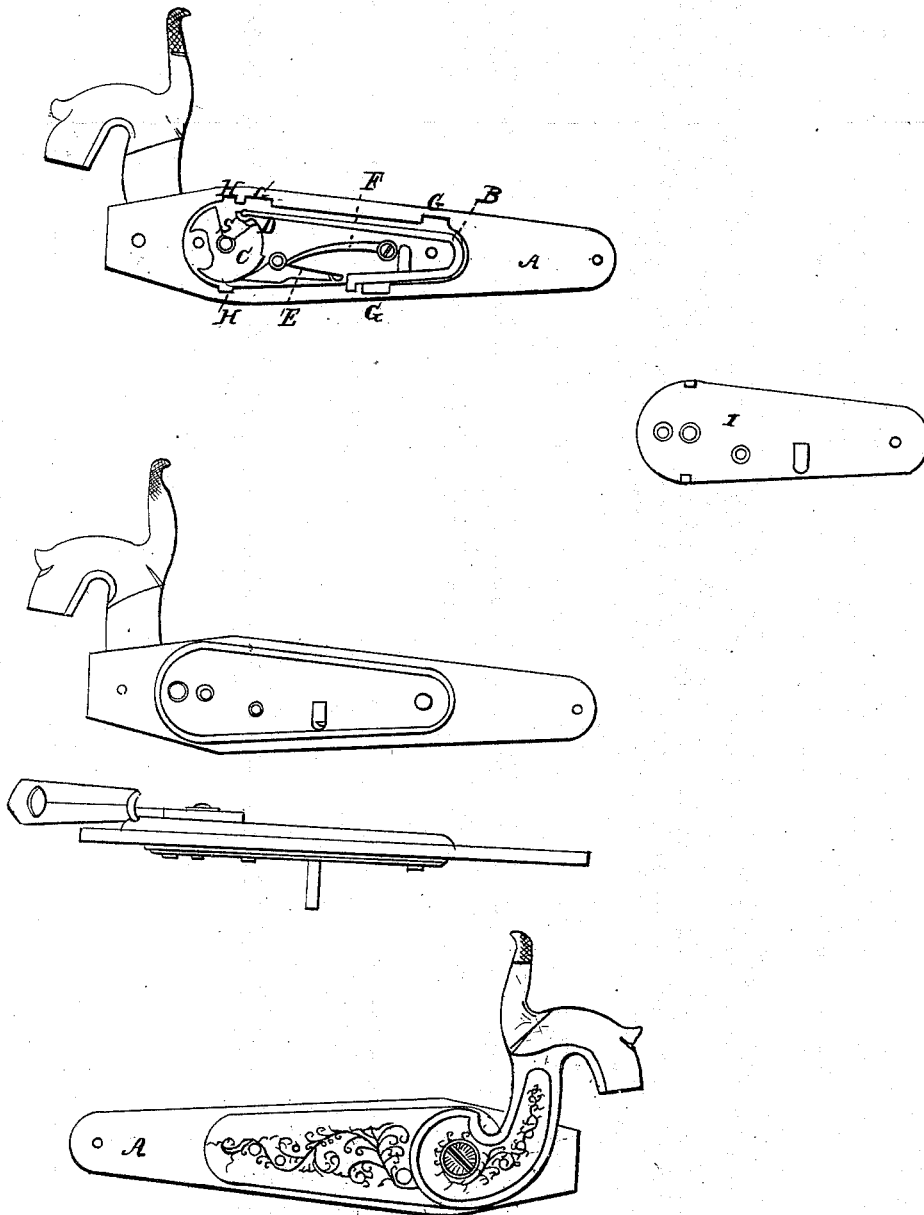


RUDOLPH & BRAUN.

Gun-Lock.

No. 54,021.

Patented Apr. 17, 1866.



Witnesses;
Ernst Smack
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Inventor;
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UNITED STATES PATENT OFFICE.

WILLIAM RUDOLPH AND AUGUSTUS BRAUN, OF SAN FRANCISCO, CAL.

IMPROVEMENT IN GUN-LOCKS.

Specification forming part of Letters Patent No. 54,021, dated April 17, 1866.

To all whom it may concern:

Be it known that we, WILLIAM RUDOLPH and AUGUSTUS BRAUN, of the city and county of San Francisco, State of California, have invented certain new and useful Improvements in Percussion-Locks for Small-Arms; and we do hereby declare that the following specification and accompanying drawings are sufficient to enable any person skilled in the art or science to which it most nearly appertains to make and use our said invention or improvements without further invention or experiment.

Figure 1 represents a plan with plate I removed; Fig. 2, a view of the inner plate; Fig. 3, a plan with inner plate attached; Fig. 4, edge view, showing the thickness of the lock complete; Fig. 5, front view or plan.

A represents the main plate, of steel about one-eighth of an inch in thickness, having an oval projection or face, (which may be ornamented), the whole being a trifle more than one-fourth of an inch in thickness. To this projection the dog or hammer is attached by means of a screw, in the usual way. (Seen in Fig. 5.)

Upon the inner face of the main plate we cut an oval apartment nearly corresponding in dimensions with the outer face, in which the machinery of the lock operates. By this arrangement we get the full thickness of the main plate without impairing its strength or allowing the lock to project in any considerable proportion from the apartment which contains it.

The mainspring B is made of the ordinary steel, shorter in length and of considerable thickness in the curve or bend, combining strength and elasticity where it is most needed. The lower or shorter arm is confined in a notch or recess, resting against the edge of the main plate, and between it and a boss riveted to the floor of the chamber.

C represents the tumbler attached to the mainspring in the usual way, and turning on its pivot.

D represents the swivel; E and F, sear and sear-spring. G G G are notches in which to insert the spring-hook; H H, notches for cap, the whole being confined in a chamber by pins and screws.

I represents the inner movable plate covering the chamber and mechanism of the lock, kept in place by lugs fitting into the notches H H, sear-spring, and tumbler-pins, with screws at either end passing through it and the outer face, leaving an opening for the sear to protrude and operate. By thus inclosing the lock the finer parts are kept from injury, and should the mainspring break no damage will be done to the stock, as is frequently the case, by splintering, the whole being securely confined by the inner plate in the apartment cut in the main plate.

It will readily be conceded that the weakest part of the stock is where the lock is placed by reason of the depression necessary to carve or cut out in order to fit locks. This is more especially the case in the manufacture of double-barreled guns, where two locks are required. Consequently two chambers must be made, one upon each side of the stock, and thus doubly weakening it, or else a clumsy thickness must be resorted to in order to gain the sufficient strength. In the use of our improved gun-lock it is intended that this defect will be overcome, also the time consumed necessary to carve out the chamber in the stock, so that the different and delicate portions of the ordinary lock may fit in our ordinary-sized lock, it being necessary to cut only one-sixteenth of an inch into the stock to successfully attach it.

Having thus described our improved percussion-lock, what we claim, and desire to secure by Letters Patent, is—

1. A lock-plate with a projection on one side and a chamber or cavity on the opposite side to contain the tumbler, sear, and springs, substantially as described.

2. In combination with the chamber or cavity above claimed, the movable plate I for covering and protecting the mechanism of the lock, substantially as described.

In witness whereof we have hereunto set our hands and seals.

WILLIAM RUDOLPH. [L. S.]
AUGUSTUS BRAUN. [L. S.]

Witnesses:

C. W. M. SMITH,
GUS. A. MANTHEY.