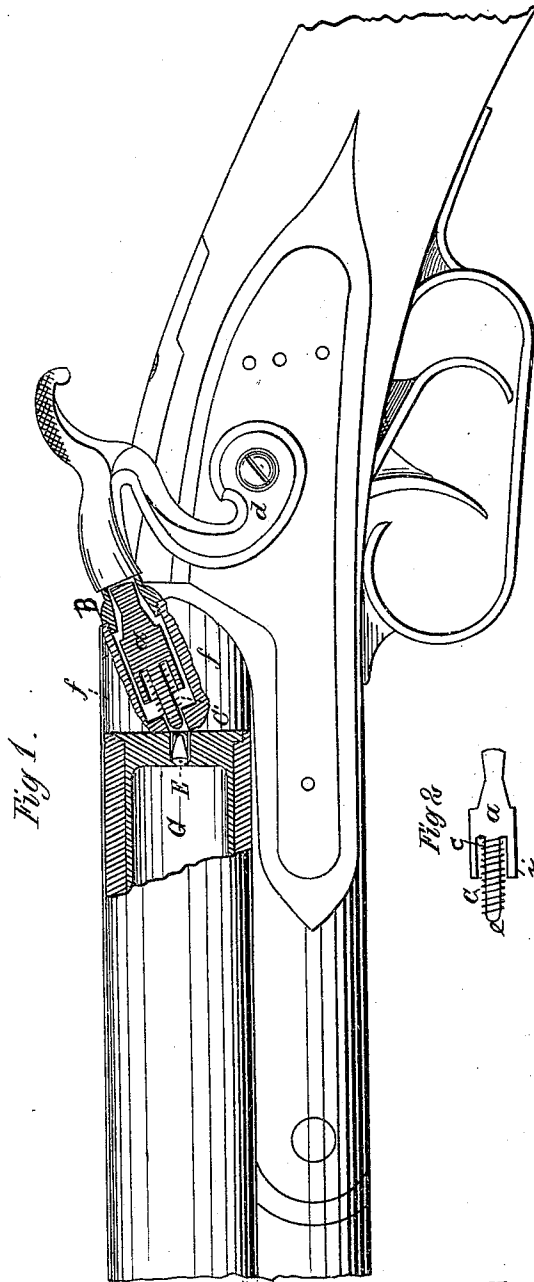


J. C. DANE.

Locks for Breech-Loading Fire-Arms.

No. 146,658.

Patented Jan. 20, 1874.



Witnesses.
William Hall.
H. Knudson.

Inventor.
Joseph C. Dane.

UNITED STATES PATENT OFFICE.

JOSEPH C. DANE, OF LA CROSSE, WISCONSIN.

IMPROVEMENT IN LOCKS FOR BREECH-LOADING FIRE-ARMS.

Specification forming part of Letters Patent No. 146,658, dated January 20, 1874; application filed January 10, 1873.

To all whom it may concern:

Be it known that I, JOSEPH C. DANE, of the city and county of La Crosse and State of Wisconsin, have invented a new and Improved Breech-Loading Fire-Arm; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming a part of this specification, in which—

Figure 1 is a partly sectional side elevation of a breech-loader provided with my improved firing-pin or "striker." Fig. 2 shows a longitudinal section of the striker detached from the fire-arm.

The object of my invention is to provide a firing-pin or striker for drop breech-loaders which shall occupy less space in the recoil-shield than those heretofore employed in guns of the needle pattern, and yet have the necessary weight to act efficiently on the cartridge by momentum. This I accomplish by providing the striker with an annular flange projecting downward around the pin and over or enclosing the spiral recoil-spring. Thus ample space is provided for the latter, so that it may be of a length necessary to its due elasticity, while the flange acts also as a stop to arrest the movement of the striker toward the cartridge at the proper moment, the proportions and arrangement of the device being such that the pin is always within the recoil-shield, except at the instant of impact on the cartridge, securing thus the advantage incident to the ordinary combination of firing-pin and recoil-hammer, as hereinafter described.

A center-fire cartridge-shell, G E, is shown inserted in the breech of the "drop"-barrel. The recoil-shield *f* is provided with an oblique recess to receive the striker *a*, and the same is confined therein by the nipple B, which screws into its place, as shown. The striker is made in one piece, and with a shoulder near its upper end, which, when the hammer *d* is raised, is in contact with the inner end of the nipple, and has an annular recess, *c*, formed in its base or lower end around the pin *e*, for the purpose of receiving the spiral spring C. The correspondingly-annular flange *i* serves as a stop for the striker when acted on by the hammer, and also gives it the weight necessary to impart to it the momentum requisite to a proper effect upon the cartridge. Without the flange the striker would require to be made longer or thicker, or both, thus taking up an undue amount of space in the recoil-shield; or else the spring C would require to be made shorter and the annular cavity filled up, thus unduly lessening the elasticity of the spring and destroying its proper action.

What I claim is—

The striker *a*, provided with a shouldered head and having an annular flange, *i*, and corresponding recess *c* for the recoil-spring, said flange extending toward the point of the firing-pin *e* to act as a stop, all as shown and described.

JOSEPH C. DANE.

Witnesses:

WILLIAM HULL,
C. H. JEWETT.