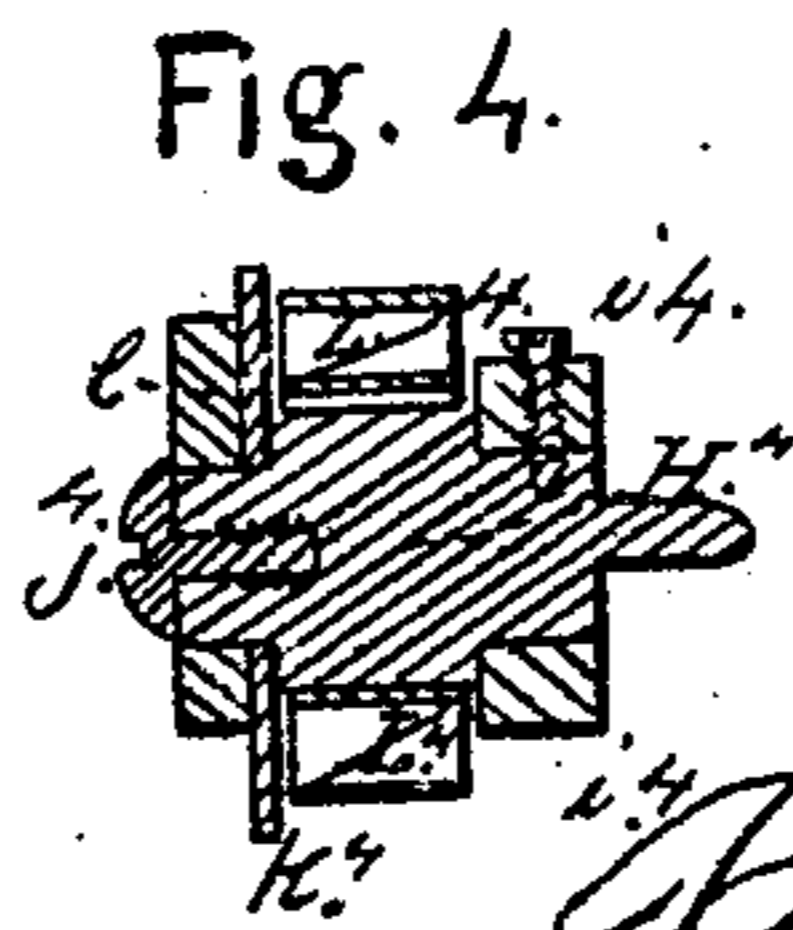
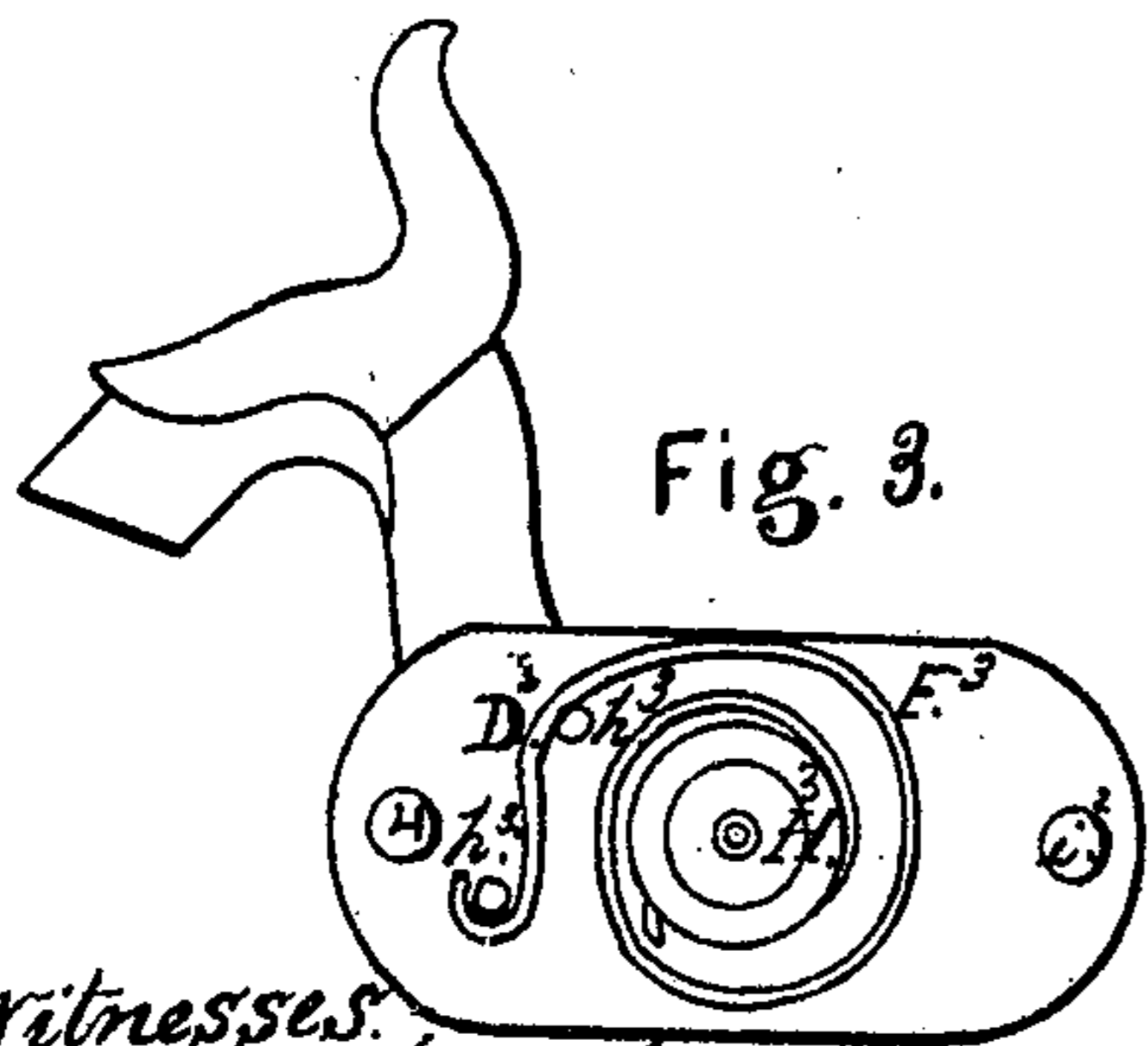
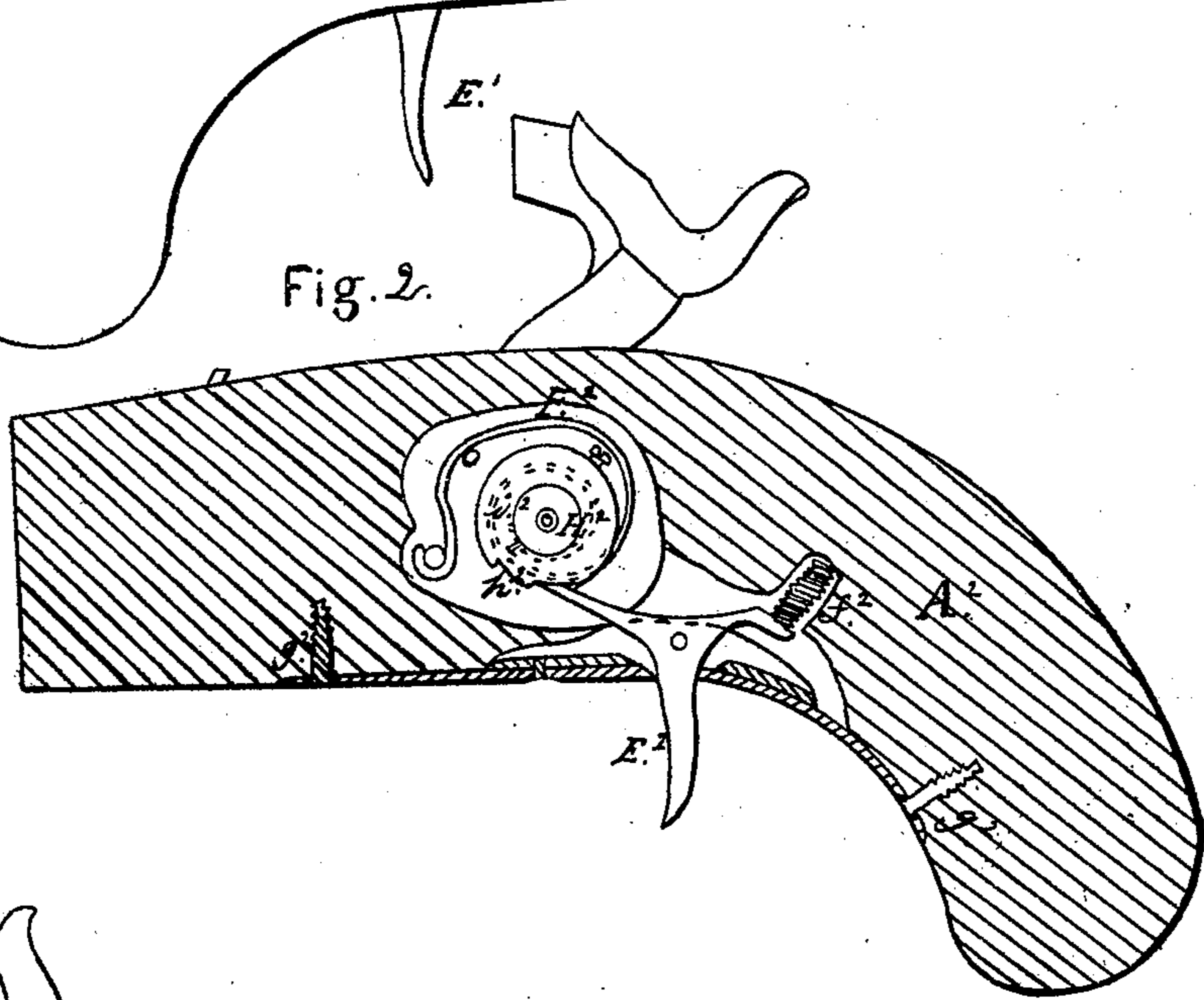
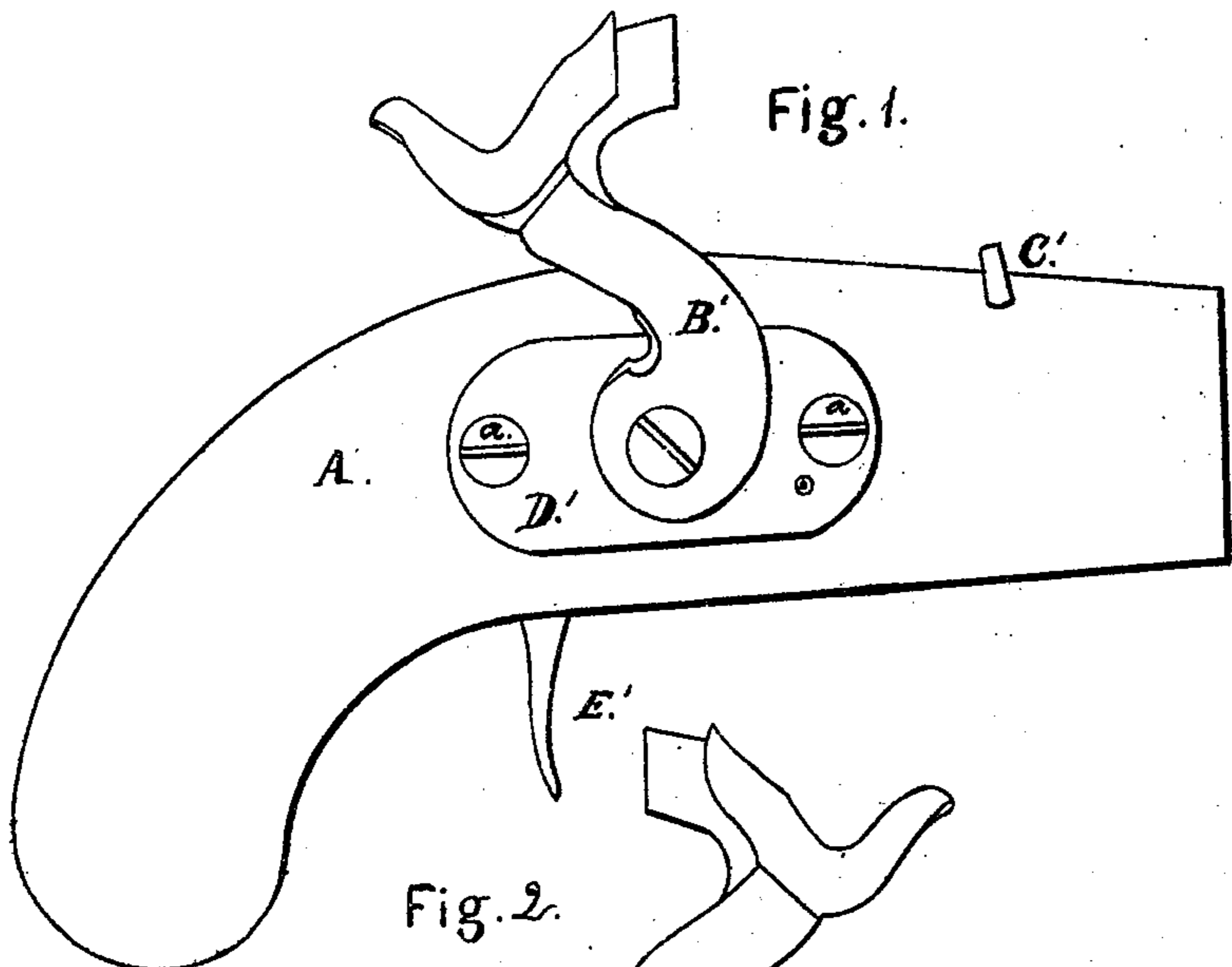


P. HILLER.
Lock for Fire-Arms.

No. { 1,184. }
 { 32,188. }

Patented Apr. 30, 1861.



Witnesses:
Alfred B. Hiller
Chas. H. Johnson

Inventor
Prince Hiller

UNITED STATES PATENT OFFICE.

PRINCE HILLER, OF MATTAPOISETT, MASSACHUSETTS.

IMPROVEMENT IN THE LOCKS OF FIRE-ARMS.

Specification forming part of Letters Patent No. 32,188, dated April 30, 1861.

To all whom it may concern:

Be it known that I, PRINCE HILLER, of Mattapoisett, in the county of Plymouth and State of Massachusetts, have invented a new and useful Improvement in Locks for Fire-Arms; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a perspective view. Figs. 2 and 3 are vertical sections. Fig. 4 is a transverse section of the shaft, &c.

Fig. 1, A' is the stock; B', the hammer; C', the tube; D', the plate to which the parts of the lock are secured; E², the trigger, which need no further specification.

Fig. 2, A² is the stock; E², the trigger. *g*² *g*² are screws which screw the trimmings to the stock. F² is the mainspring. The form of making, manner of attaching, and operation constitute a part of the novelty of my invention. H² is the shaft around which the mainspring is coiled. *i*² is the wheel attached to the shaft by a screw, which can be adjusted so as to command more or less rake of the hammer, which is another part of the novelty of said invention. *h*² are notches in the edge of said wheel, into which one arm of the trigger is forced by means of the spiral spring shown at *f*².

Fig. 3, D³ is a plate, to which parts of the lock are secured. F³ is the mainspring shown at F² in Fig. 2. H³ is the shaft, also shown by H² in Fig. 2. *h*³ *h*³ are pins firmly secured in plate D³, to which the coiled mainspring is attached, as represented in Figs. 2 and 3. *i* *i* are holes through the plate through

which (*a a*, see Fig. 1) the screws are inserted, &c. Fig. 4, L L is the spring coiled round the shaft. K is the edge of the plate shown at D³ in Fig. 3. *j*⁴ is a screw which screws the hammer to the shaft. *i*⁴ *i*⁴ is notched wheel shown at *i*² in Fig. 2.

The respective parts of the within invention of improved lock for fire-arms being constructed and put together in their proper positions, as herein specified and described, the mainspring being coiled several times round the shaft, as herein shown, one end of said spring being secured to the shaft by means of a catch or pin, and the other end secured to the plate, as herein set forth, the operation may be noted.

By coiling the mainspring several times around the shaft (until sufficient elasticity is secured to bring the hammer down with the desired momentum) and regulating the wheel so as to get more or less rake to the hammer, a quick, uniform, powerful, and sure blow is struck by the hammer, thereby securing certainty of ignition.

I do not claim, broadly, the employment in a gun-lock of a coiled mainspring, as that feature is old; but

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

A mainspring coiled around the shaft, in connection with the adjustable tumbler, the several parts being arranged as and for the purposes set forth and described.

PRINCE HILLER.

Witnesses:

ALPHEUS B. HILLER,
CHAS. H. JOHNSON.