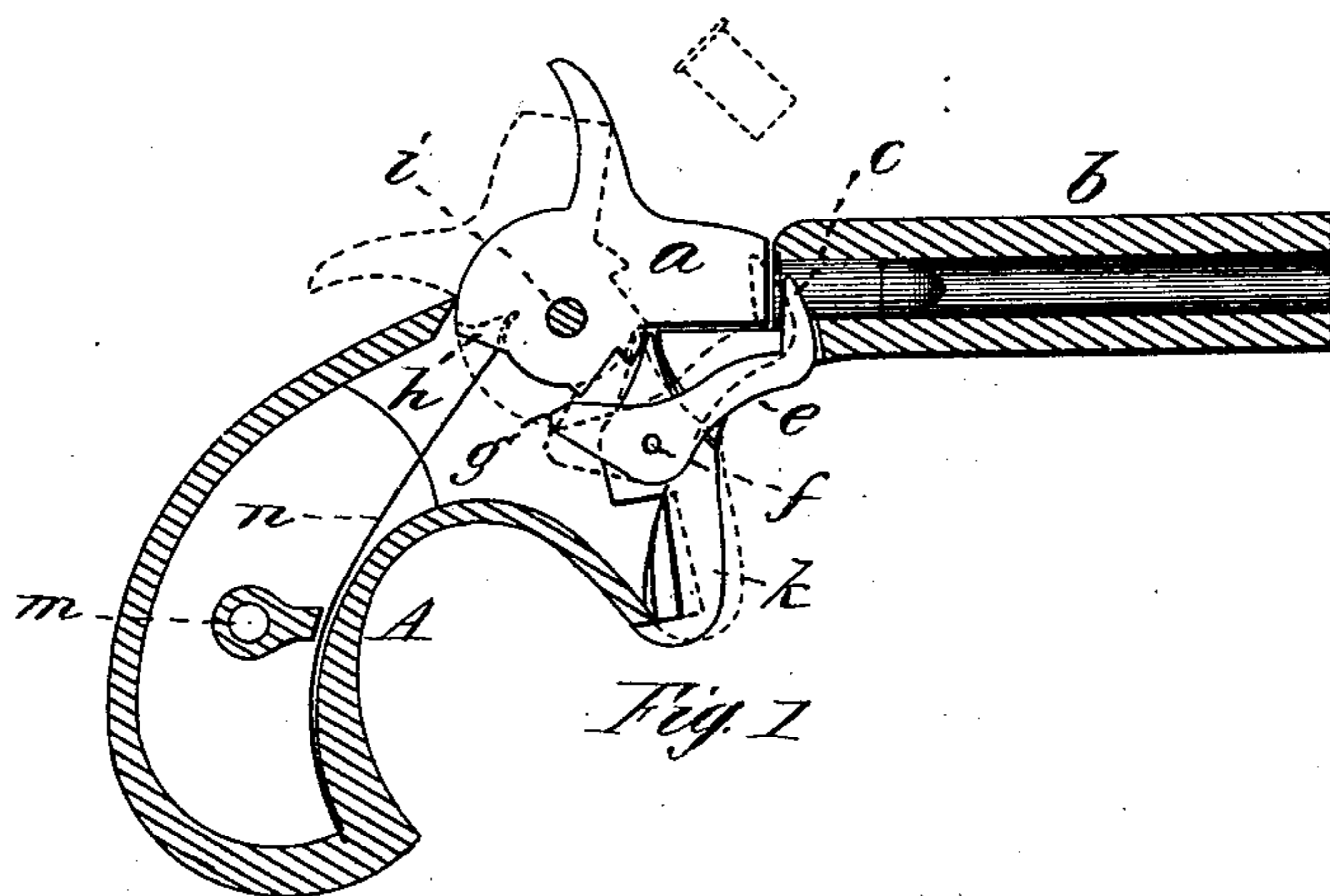


L. C. RODIER.
Breech Loading Fire-Arms.

No. 154,960.

Patented Sept. 15, 1874.



Witnesses,

Geo. R. Wall
C. E. Duckland.

Louis C. Rodier, Inventor.
By J. H. Curtis,
his atty.

UNITED STATES PATENT OFFICE.

LOUIS C. RODIER, OF SPRINGFIELD, MASSACHUSETTS.

IMPROVEMENT IN BREECH-LOADING FIRE-ARMS.

Specification forming part of Letters Patent No. **154,960**, dated September 15, 1874; application filed March 3, 1874.

To all whom it may concern:

Be it known that I, LOUIS C. RODIER, of Springfield, in the State of Massachusetts, have invented a new and useful Improvement in Fire-Arms; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings making a part of this specification, and to the letters of reference marked thereon, in which the figure is a longitudinal vertical section of the arm through the extractor-recess, showing the hammer and lock mechanism.

My invention relates to that class of small fire-arms in which the nose of the hammer forms the breech or recoil-block, its object being to provide said arm with an extractor, which may be operated to extract the shells by the movement of the hammer in cocking it; and it consists of a plate located in a recess made for it by the side of the trigger, and which may be hung upon the same pivot with the trigger, said plate being provided, at its front end, with a finger, which rests in its recess at the rear of the bore of the barrel.

The plate extends backward from its pivot a short distance, forming an arm, which, when the hammer is thrown back in the act of cocking it, is struck by a cam-shaped projection on the hammer, and tilted down suddenly, throwing the finger at the front end of the plate, which forms the long arm of the lever, upward and backward quickly, which movement causes the finger to strike against the flange of the empty shell, and throw it out of the chamber.

In the drawings, A represents the stock of the arm, which may be cast in the shape of a frame, in which is secured a spring, *n*, to throw the hammer forward, and the trigger is made and pivoted at *f* to operate with the tumbler of the hammer in the usual manner. A recess is made in the frame by the side of the trigger, in which recess is placed the lever or plate *e*, which may be hung upon the same pivot *f* as the trigger *k*. The plate or lever *e* has a long arm,

which extends forward, and is provided with a finger, *c*, at the end, which rests in a recess made in the lower rear part of the barrel, the end of the finger *c* extending up into the rear end of the bore, and at one side of it. The short arm *g* of the lever or plate extends back a short distance from the pivot *f*, and the lower rear part of the hammer *a* has a cam or incline, *h*, made thereon.

A cartridge being inserted into the rear end of the bore when the hammer is cocked, the flange of the cartridge covers the finger *c*. The trigger being pulled, the nose of the hammer strikes the cartridge and explodes it, and the pivot *i* of the hammer being located on a line with the bore, in its rear, the nose of the hammer serves as the recoil-block. The hammer is again thrown back into the position shown in dotted lines, or cocked, and when the incline or cam *h* on the rear part of the hammer passes down and forward, in the operation of cocking the hammer, it strikes the end *g* of the extractor-plate, and throws it down suddenly, which causes the finger *c* upon the long arm of the lever to fly back quickly and throw the empty shell out at the rear end of the bore.

An effective fire-arm is thus provided, in which the breech or recoil block is removed from the rear of the barrel, and the empty shells extracted from the bore at one and the same movement of cocking the hammer, and which may be made cheaply, and which is free from complication of parts, and is not liable to get out of order.

Having described my invention, what I claim as new is—

The combination, in a breech-loading fire-arm, of the hammer provided with the cam *h*, and the pivoted extractor-lever *e*, constructed and operating substantially as described.

LOUIS C. RODIER.

Witnesses:

T. A. CURTIS,
C. E. BUCKLAND.