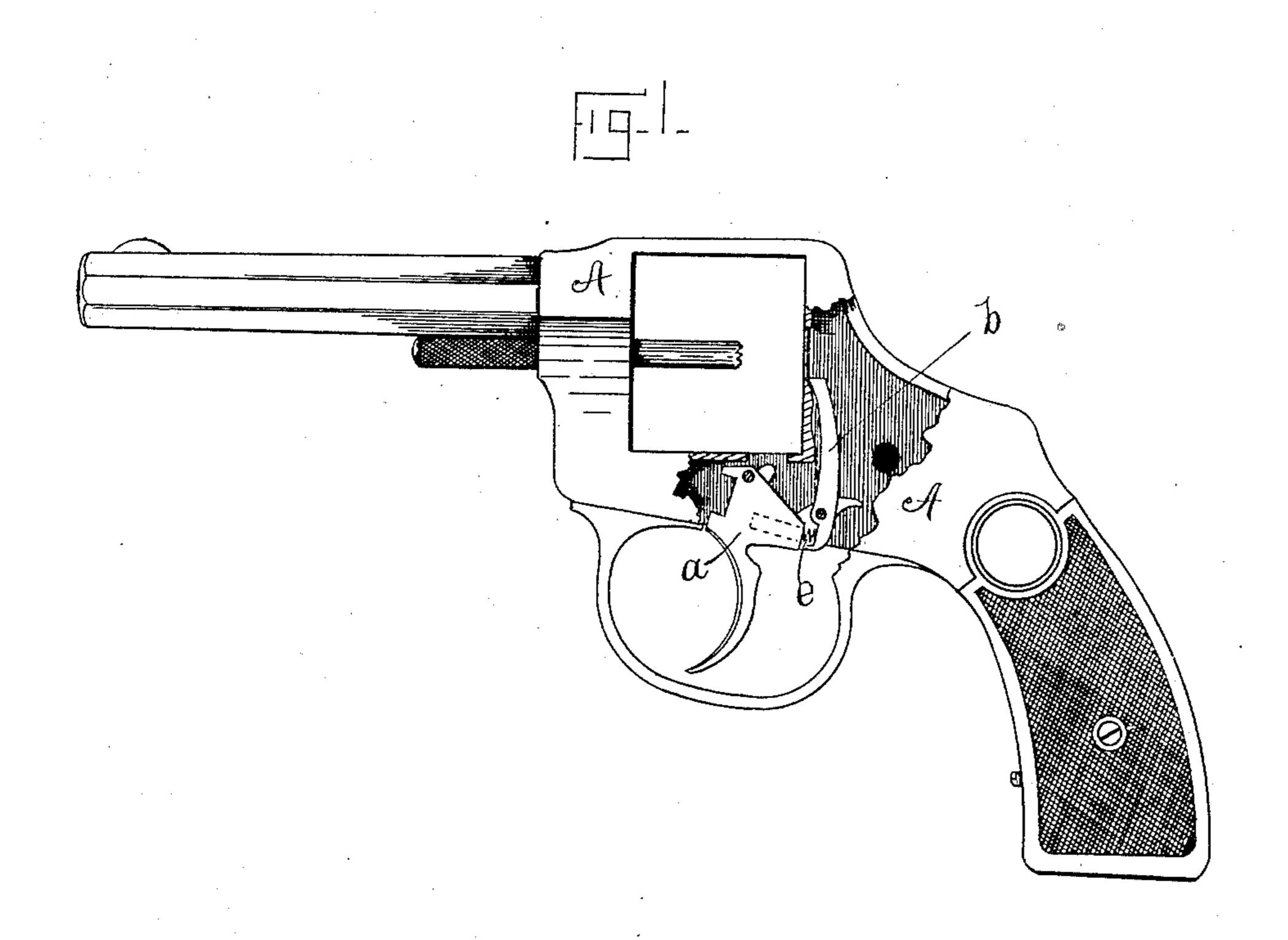
(No Model.)

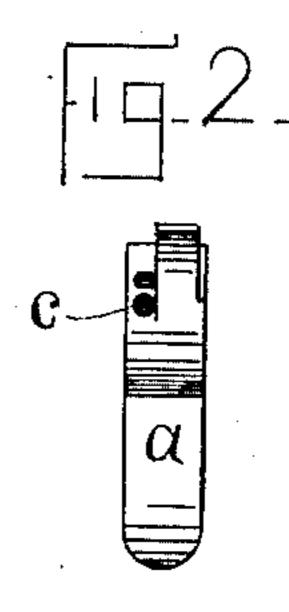
J. BOLAND.

REVOLVING FIRE ARM.

No. 333,725.

Patented Jan. 5, 1886.





Tyler J. Horvard William G. Harrington

United States Patent Office.

JAMES BOLAND, OF NORWICH, CONNECTICUT, ASSIGNOR TO THE HOPKINS & ALLEN MANUFACTURING COMPANY, OF SAME PLACE.

REVOLVING FIRE-ARM.

SPECIFICATION forming part of Letters Patent No. 333,725, dated January 5, 1886.

Application filed November 18, 1885. Serial No. 183,159. (No model.)

To all whom it may concern:

Be it known that I, James Boland, a citizen of the United States, residing in the city of Norwich, county of New London, and State of Connecticut, have invented a certain new and useful Improvement in Revolving Fire-Arms, which improvement is fully set forth and described in the following specification, reference being had to the accompanying sheet of drawings.

My improvement is in that class of revolving arms commonly known as "double-acting," the lock-work being so constructed that it may be used either as a "single-acting" or

15 "self-cocking" arm.

In the sub-class to which my improvement is especially applicable the pawl or lever provided to rotate the many-chambered cylinder is pivoted to or in the rear side of the trigger, 20 and my immediate object is to provide a more simple and at the same time less expensive spring device, to hold said pawl forward in constant engagement with said revolving cylinder, than has heretofore been in use. Among 25 the various devices which have been used with more or less success is a flat sheet-steel spring secured to the rear lower side of the pawl, and whose free end extends well upward and engages one of the walls of the slot through which 30 the pawl passes to reach the cylinder. This form of pawl-spring has been generally adopted by manufacturers of double-acting smallarms; but as far as I am acquainted with the state of the art is open to the following objec-35 tions, which it is my purpose to overcome: First, when secured directly to the pawl there has been an inclination to work loose, caused by the constant jar in firing and working the arm; second, the considerable friction result-40 ing from the rubbing of both the spring and pawl against the walls of the frame-slot at each downward movement of the pawl after firing acts directly against the force of the triggerspring, and necessitates the use of a stronger 45 trigger-spring than would otherwise be required. This is particularly objectionable in self-cocking arms, as it is desirable that the

o In the device which I will proceed to describe in detail I have not only avoided the

trigger rearward.

least possible force be exerted in pulling the

unnecessary friction above referred to, but have so formed and located the pawl-spring that it acts to assist the trigger-spring; and in order to more fully explain my device I have 55 annexed hereto a sheet of drawings, in which—

Figure 1 shows a portion of a revolverframe, A, having properly located therein a trigger, a, and pawl b. Fig. 2 is a rear view

of said trigger with pawl removed.

The pawl b is pivoted at the rear side of the trigger, said trigger being milled off or otherwise partially cut away so that the face of the pawl is flush with the side of the trigger when the parts are assembled. The upper 65 portion of the pawl is of the customary shape; but the lower portion extends downward below the fulcrum, and is preferably slotted transversely, as shown. The side wall of the trigger, which confronts the short arm of pawl 70 b, is drilled, as at c, Fig. 2, and in the hole thus provided I place a strong spiral spring, e, whose outer end engages the short hooked end of the pawl and acts constantly to throw the longer arm forward. The hole c should 75 be bored at about a right angle to the engaging portion of the pawl, so that there may be little or no inclination on the part of the spring to cramp and bind when compressed.

With the parts assembled as described, and 80 with the pawl proper resting forcibly against the frame, the tendency of spring e is to return the trigger to its normal position after firing; and I find in practice that it is both possible and practicable to dispense with the 85 trigger-spring proper, (heretofore a necessary element in this class of arms,) and to depend altogether on said spring e, thus reducing the number of parts, and also reducing the cost of producing the complete arm.

Having thus described my invention, I

claim-

1. In an arm of the class referred to, a trigger pivoted within a suitable frame, a cylinder-pawl pivoted to the rear of said trigger 95 and having its lower portion extended below its pivotal connection, as herein described, and a spring held within a recess in the trigger, whose free end engages said lower portion of the pawl, said elements being composed in the purpose specified.

2. In combination with a suitable frame, a trigger, a pawl pivoted to the rear portion of said trigger and having its lower portion extended below its pivotal point and slotted 5 transversely, as described, and a spiral spring concealed within the trigger, capable of engaging the pawl, as described, for the pur-

pose of throwing the longer arm of said pawl forward into engagement with the cylinderratchet.

JAMES BOLAND.

Witnesses:

nesses: Frank H. Allen, TYLER J. HOWARD.