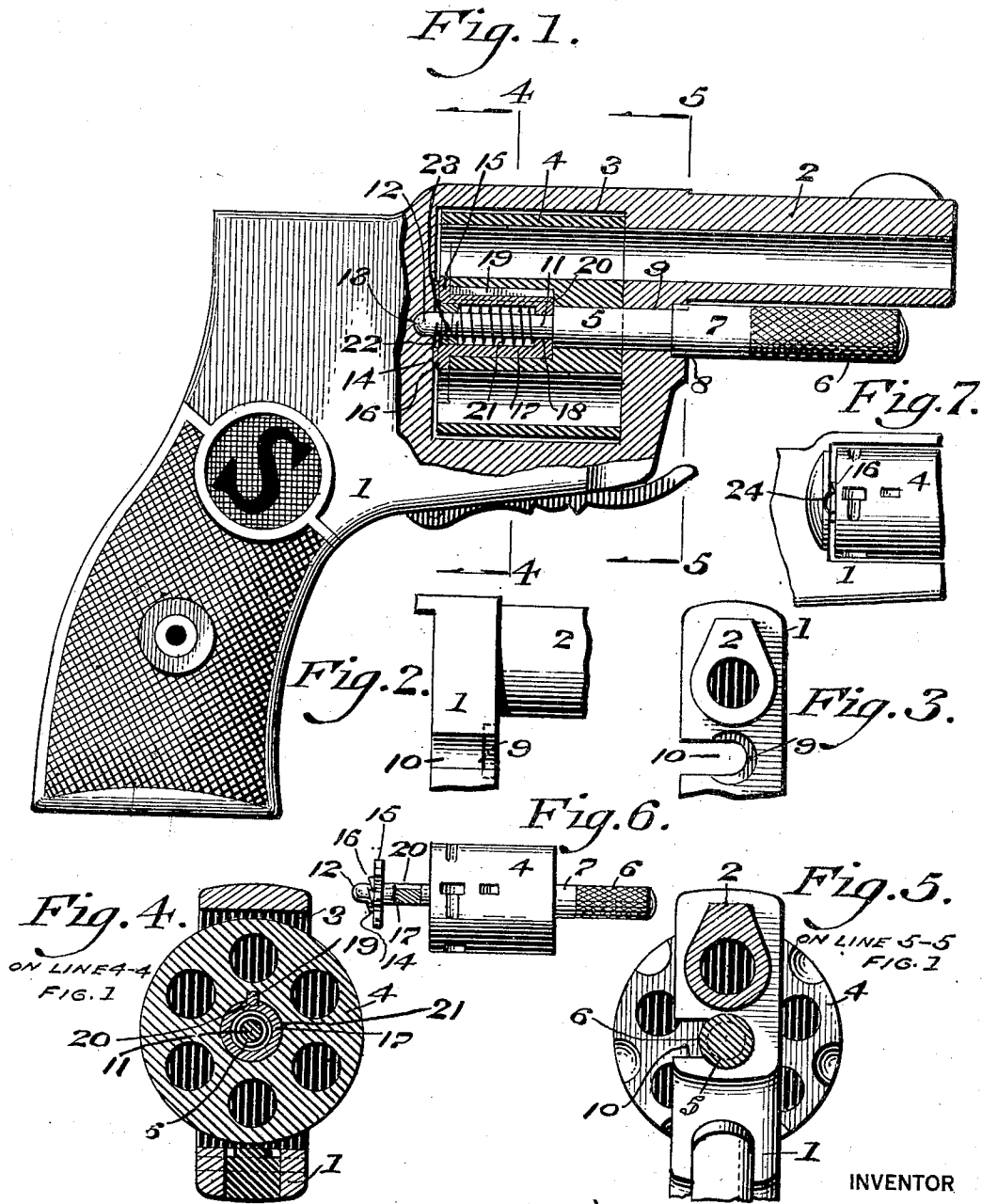


1,236,608.

Patented Aug. 14, 1917.



INVENTOR
Reginald F. Sedgley,
BY Medusheim & Grant
ATTORNEYS

UNITED STATES PATENT OFFICE.

REGINALD F. SEDGLEY, OF PHILADELPHIA, PENNSYLVANIA.

REVOLVER.

1,236,608.

Specification of Letters Patent.

Patented Aug. 14, 1917.

Application filed March 20, 1917. Serial No. 155,973.

To all whom it may concern:

Be it known that I, REGINALD F. SEDGLEY, a subject of the King of Great Britain, residing in the city and county of Philadelphia, State of Pennsylvania, have invented a new and useful Revolver, of which the following is a specification.

My present invention relates to revolvers or firearms of the type wherein the cylinder is adapted to revolve within the frame and bodily removable therefrom.

With the above in view, my invention comprehends a novel construction of a firearm, wherein the base or ejector pin forms the sole means for mounting the cylinder within the frame and wherein the tension device for the ejector coöperates with the base pin to permit the bodily removable of the cylinder and base pin from the frame.

It further consists of a novel construction of a cylinder, a novel construction of ejector mechanism, and a novel construction of a base or ejector pin.

It further consists of a novel construction of a frame.

Other novel features of construction and advantage will hereinafter more clearly appear in the detailed description of my invention.

For the purpose of illustrating my invention, I have shown in the accompanying drawing, a typical embodiment which is at present preferred by me, since this embodiment will give in practice satisfactory and reliable results, although it is to be understood that the various instrumentalities of which my invention consists can be variously arranged and organized and that my invention is not limited to the precise arrangement and organization of these instrumentalities as herein shown and described.

Figure 1 represents, in side elevation and partly broken away, a revolver embodying my invention.

Fig. 2 represents, in side elevation, a portion of the frame.

Fig. 3 represents a front elevation of a portion of the frame, with the base and ejector pin removed.

Fig. 4 represents a section on line 4—4 of Fig. 1.

Fig. 5 represents a section on line 5—5 of Fig. 1.

Fig. 6 represents a side elevation of the cylinder, extractor, and base and ejector

pin as they appear when completely removed from the frame, said pin being partly broken away for the sake of clearness of illustration.

Fig. 7 represents, in side elevation, a portion of the frame and cylinder.

Similar numerals of reference indicate corresponding parts in the figures.

Referring to the drawings:—

1 designates the frame of a revolver or firearm embodying my invention, and preferably of the hammerless type, said frame having integral therewith or connected thereto a barrel 2. In the form illustrated, the barrel 2 forms an integral part of the frame. The frame 1 is apertured, as indicated at 3, to receive the cylinder 4, which is rotatably mounted on the cylindrical portion 5 of the base and ejector pin 6, which is provided with the head 7, thereby forming a shoulder 8 which is adapted to interlock with the wall of the counter bore of the recess 9, which latter merges into a slot 10 which opens through a side of the frame 1. It will be best understood by reference to Figs. 2, 3 and 5.

The forward end of the base and ejector pin 6 is preferably knurled, as indicated in Fig. 1, in order that it may be the more readily grasped by the fingers of the operator. The cylindrical portion 5 of the base and ejector pin 6 merges into cylindrical portion 11 of less diameter, and the inner end terminates in a conical or rounded end 12, which is received in a recess 13, which is centrally located with respect to the aperture 3.

14 designates the ejector which comprises an ejector plate 15 having formed on its rear face a ratchet 16, and extending forwardly from the plate 15 is a sleeve 17, the forward end of which has a restricted opening 18, the wall of which forms a bearing for the cylindrical portion 11 of the base and ejector pin 6. The ejector 14 rotates in unison with the cylinder and is longitudinally slidable therein owing to the provision of the key 19 which extends into the longitudinal slot or keyway 20 in the ejector sleeve 17.

21 designates a spring, one end of which abuts against the forward portion of the sleeve 17, while its opposite end abuts against a lock nut 22, which engages the threaded portion 23 of the base and ejector pin 6. This lock nut for the spring also serves to

retain the cylinder and the cartridge ejector in assembled position on the base and ejector pin. The cylinder is revolved in the usual manner during the act of firing in a clockwise direction, so that there is no tendency for the lock nut to unscrew. When the parts are assembled and it is desired to remove the cylinder and the base and ejector pin, it is simply necessary to draw the base and ejector pin forwardly against the tension of the spring 21 until the rounded end 12 is disengaged from the walls of the recess 13 and then exert a lateral pressure against the cylinder and the cylinder and base pin and their adjuncts are removed as a unit of structure from the frame.

When it is desired to assemble the parts, it is simply necessary to place the forward end of the cylinder against the top wall of the aperture 3, draw the base and ejector pin 6 forwardly, its rear end entering the pin centering recess 24, see Fig. 7, and push the cylinder laterally until the base pin interlocks with the walls of the recesses 9 and 13.

I have deemed it unnecessary to illustrate and describe the means employed for revolving the cylinder or the hammer, trigger, and their adjuncts, since such means are well known in this art and form *per se* no part of my present invention.

It will be seen that when the cylinder is removed, the spring 21 is placed under tension, whereby when the cylinder is disengaged from the frame, relative movement will be effected between the cartridge ejector and the cylinder, so that the cartridges will be automatically ejected from the cylinder.

It will now be understood that in accordance with my present invention, I eliminate the necessity of employing a crane, and the cylinder and the base pin and the ejector are bodily removed as a unit of structure from the frame. The inner end of the base pin interlocks with the recess 13, and a portion of the base pin seats in the bore 10, and the pin is provided with means to interlock with the countersunk portion of such bore. The spring is under tension when the parts are assembled so that the base and ejector pin is resiliently locked in position, and as soon as the base pin is drawn forwardly the proper distance, by exerting lateral pressure against the cylinder, the cylinder and base pin will be entirely removed from the frame. As soon as this is accomplished, the spring causes relative movement between the ejector and the cylinder so that the used cartridges are ejected from the cylinder. The nut on the base and ejector pin serves as an abutment for one end of the spring, and the other end of such spring coöperates with the internal shoulder on the sleeve of the ejector.

It will be apparent from the foregoing

that a revolver constructed in accordance with my present invention is of simplified and compact construction, and the parts are arranged in such a manner that they are fool proof and are not likely to get out of order.

It will now be apparent that I have devised a novel and useful revolver, which embodies the features of advantage enumerated as desirable in the statement of the invention and the above description, and while I have, in the present instance, shown and described a typical embodiment thereof, which will give in practice satisfactory and reliable results, it is to be understood that this embodiment is susceptible of modification in various particulars without departing from the spirit or scope of the invention or sacrificing any of its advantages.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. In a revolver, a frame having a cylinder receiving opening, a central recess leading thereto, and provided with a countersunk bore in alinement with said recess, said bore merging into a slot opening laterally through a side wall of the frame, a cylinder, a base and ejector pin on which said cylinder is mounted, adapted to seat in said recess and bore, and provided with means to interlock with the countersunk portion of said bore, an ejector having a sleeve within said cylinder, an abutment at the inner end of said pin, and a spring bearing against said abutment and sleeve, whereby said pin is interlocked at a plurality of points with said frame.

2. In a revolver, a frame having a cylinder receiving opening, a central recess leading thereto, and provided with a countersunk bore in alinement with said recess, said bore merging into a slot opening laterally through a side wall of the frame, a cylinder, a base and ejector pin on which said cylinder is mounted, adapted to seat in said recess and bore, and provided with means to interlock with the countersunk portion of said bore, an ejector having a sleeve keyed to said cylinder to provide for its relative movement with respect thereto, an abutment at the inner end of said pin, and a spring between said abutment and sleeve, whereby said pin is interlocked at a plurality of points with said frame.

3. In a revolver, a frame having a cylinder receiving opening, a central recess leading thereto and provided with a countersunk bore in alinement with said recess, said bore merging into a slot opening laterally through the frame, a cylinder, a base and ejector pin on which said cylinder is mounted, adapted to seat in said recess and bore, and provided with means to interlock with the countersunk portion of said bore, a nut

engaging the inner portion of said pin, an ejector having a sleeve movable longitudinally with respect to said cylinder, and a spring cooperating with said nut and sleeve to maintain said base and ejector pin in locked position, whereby when said pin moves outwardly to cause said means to disengage said countersunk portion, said base pin, cylinder, and ejector is bodily removable as an integral structure from said frame.

4. In a revolver, a frame having a cylinder receiving opening, a central recess leading thereto and provided with a countersunk bore in alinement with said recess, said bore merging into a slot opening laterally through the frame, a cylinder, a base and ejector pin on which said cylinder is mounted, adapted to seat in said recess and bore, and provided with means to interlock with the countersunk portion of said bore, a nut engaging the inner portion of said pin, an ejector having a ratchet integral therewith and provided with a sleeve movable longitudinally with respect to said cylinder, and a spring cooperating with said nut and sleeve to maintain said base and ejector pin in locked position, whereby when said pin

moves outwardly to cause said means to disengage said countersunk portion, said base pin, cylinder, and ejector is bodily removable as an integral structure from said frame.

5. In a revolver, a frame having a cylinder receiving opening, a recess leading thereto and a countersunk bore, a cylinder, an ejector longitudinally movable with respect to said cylinder, a base and ejector pin having a portion adapted to seat in said bore and having its end adapted to seat in said recess, said bore merging into an opening through said frame to provide for the removal of said pin and cylinder, said pin having means to interlock with the countersunk portion of said bore, and a spring cooperating with said pin and ejector to lock said pin in position when the parts are assembled and to cause relative movement of said ejector and cylinder when said cylinder and base pin are removed as a unit of structure from said frame.

REGINALD F. SEDGLEY.

Witnesses:

H. S. FAIRBANKS,
C. D. McVAY.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."