

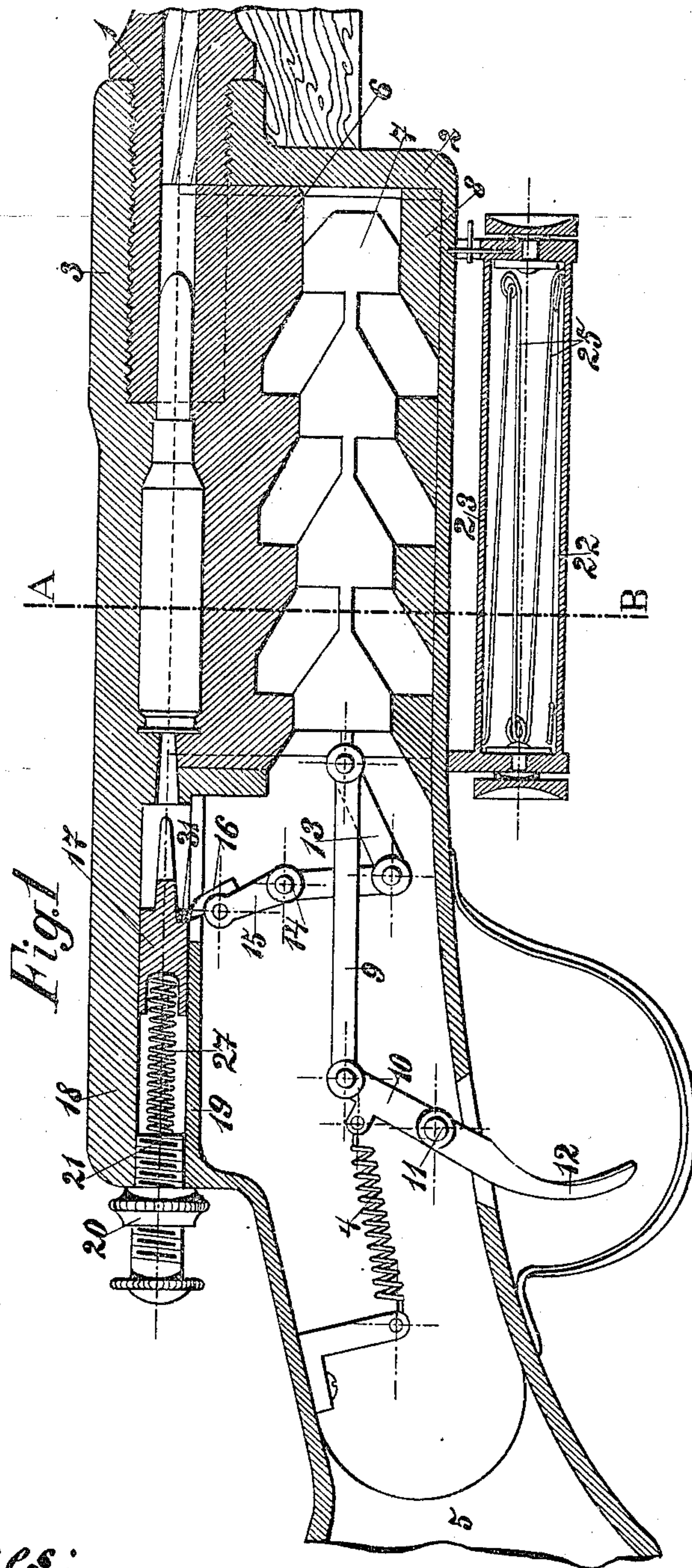
No. 846,576.

PATENTED MAR. 12, 1907.

J. LAUBER.
MAGAZINE GUN.

APPLICATION FILED AUG. 14, 1905.

3 SHEETS—SHEET 1.



Witnesses:
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3 SHEETS—SHEET 2.

Fig. 2

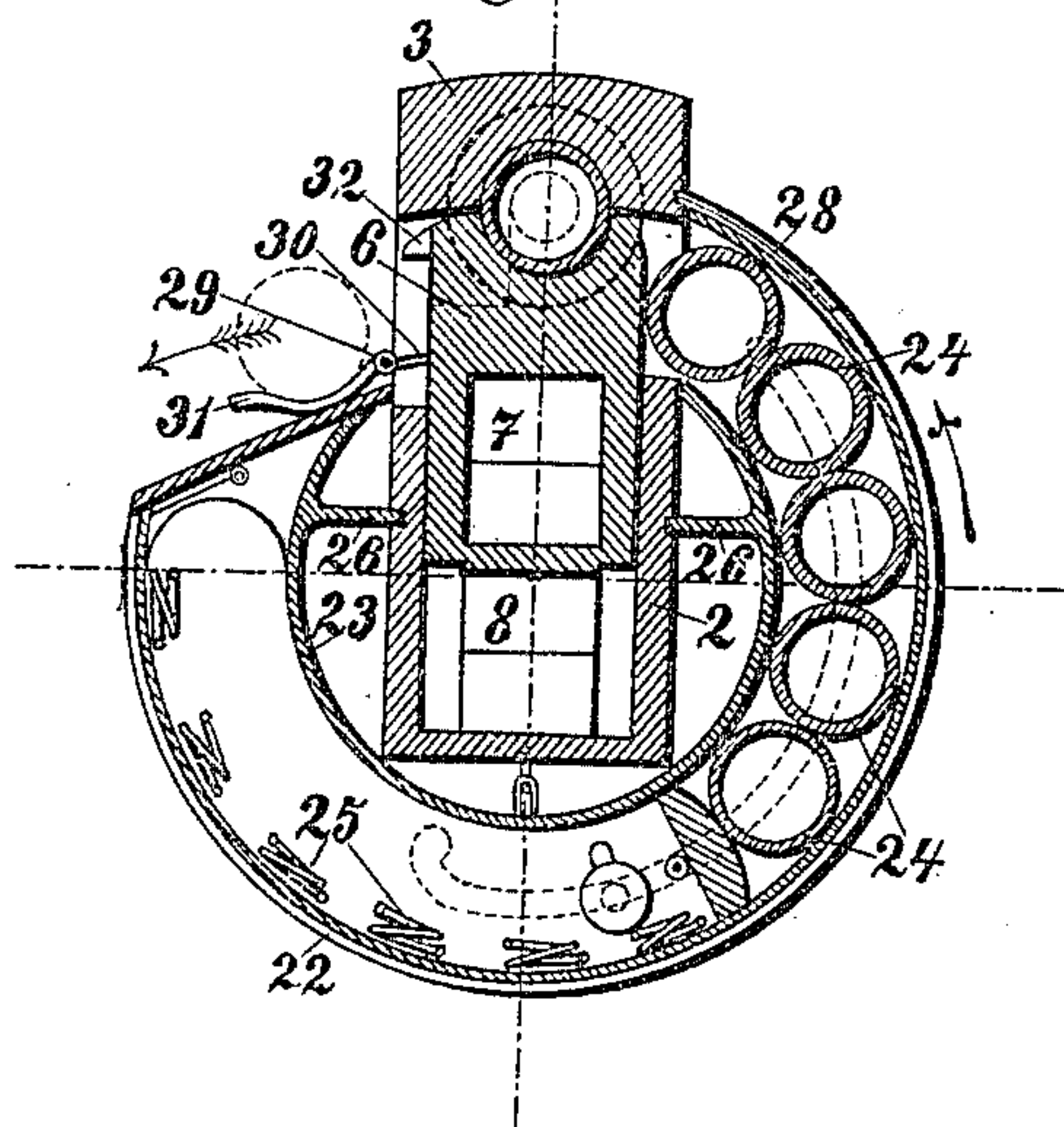
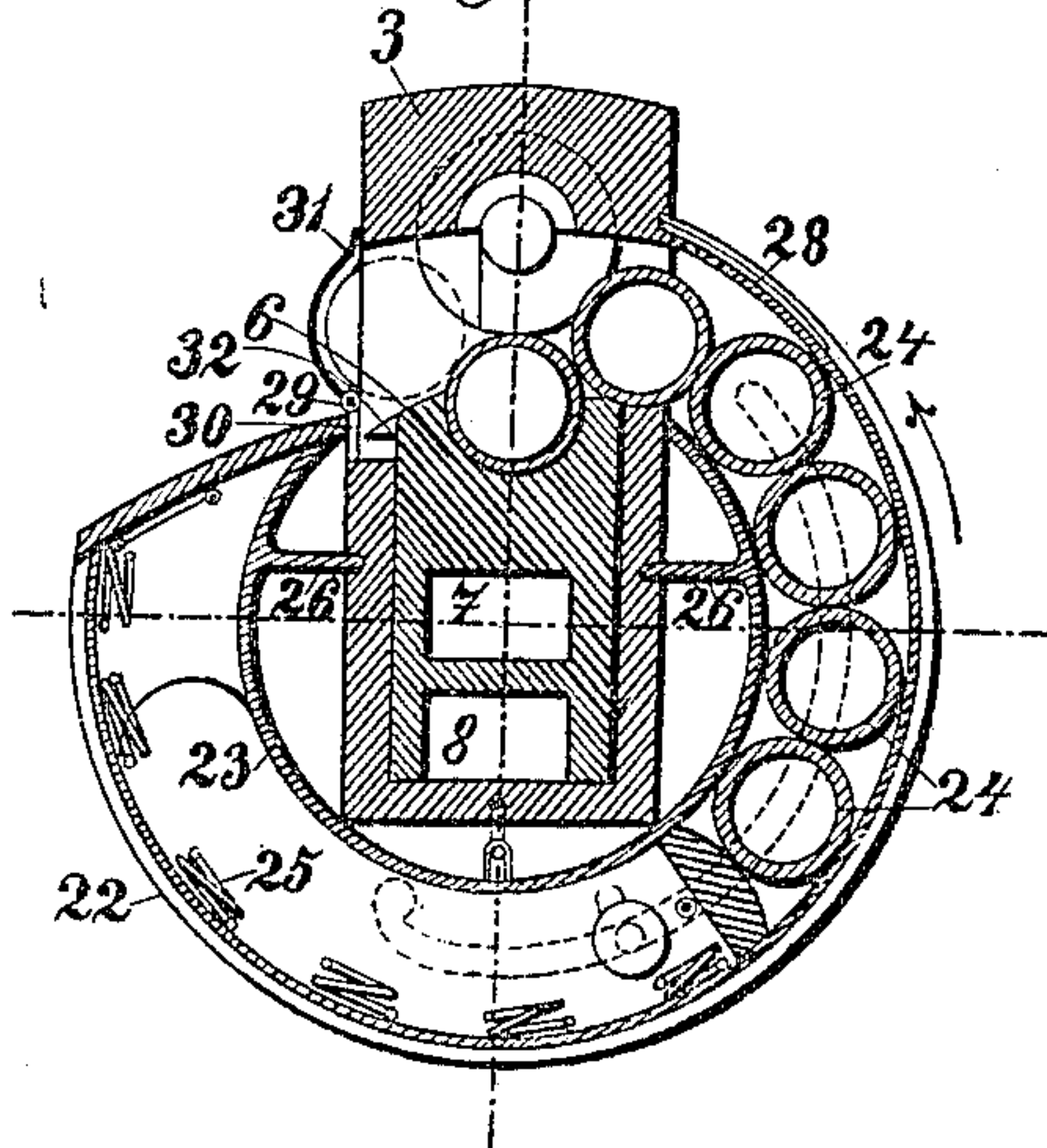


Fig. 4



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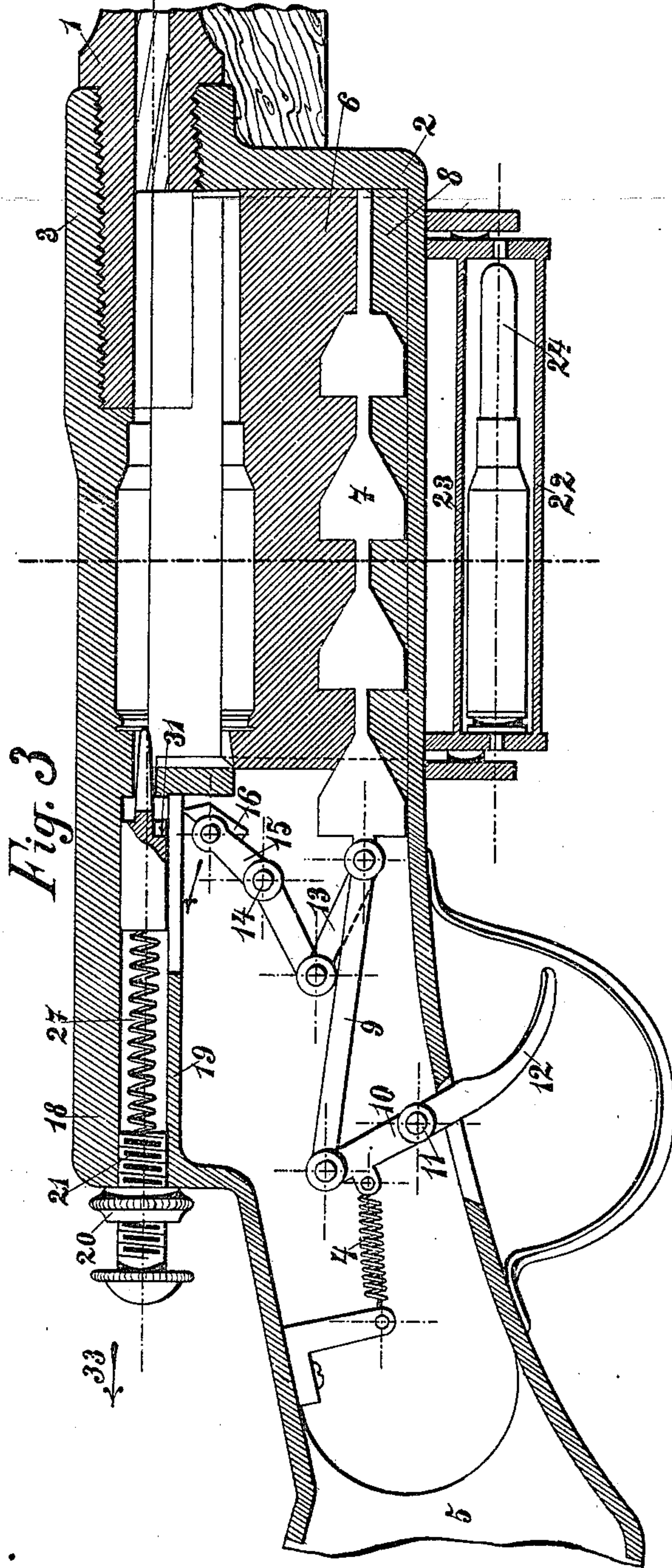
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3 SHEETS—SHEET 3.



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UNITED STATES PATENT OFFICE.

JOSEF LAUBER, OF VIENNA, AUSTRIA-HUNGARY.

MAGAZINE-GUN.

No. 846,576.

Specification of Letters Patent.

Patented March 12, 1907.

Application filed August 14, 1905. Serial No. 274,097.

To all whom it may concern:

Be it known that I, JOSEF LAUBER, a subject of the Emperor of Austria, residing at No. 15 Laxenburgerstrasse, Vienna, Austria-Hungary, have invented a certain new and useful Improved Magazine-Gun, of which the following is a full, clear, and exact description.

This invention relates to a magazine-gun in which the cartridges are automatically fed to the breech and after the firing of the shot are automatically ejected, the cartridges being fed from the side into the breech. The bottom of the breech is for this purpose made movable and is combined with the ejecting device in such manner that on ejecting it feeds the cartridge into the breech and secures it while being fired. On depression of the movable breech-base the shell of the spent cartridge is thrown toward the side and a new cartridge is brought automatically from a cartridge-magazine over the movable base of the breech.

In the drawing one embodiment of the invention is shown by way of example.

Figure 1 is a longitudinal section through the open breech-block and through the ejector, the parts being shown in the position occupied immediately after cocking the hammer. Fig. 2 is a vertical section on the line A B of Fig. 1. Fig. 3 is a longitudinal section through the breech, the hammer being uncocked. Fig. 4 is a vertical section on C D of Fig. 3.

On the barrel 1 of the gun is screwed a casing which consists of the under part 2 and of a part 3, forming the upper part of the breech. This casing is bolted in suitable manner to the butt-end 5. In the casing 2 3 there slides a part 6, forming the base of the breech. This base 6 rests on a longitudinal slidable wedge-piece 7, which consists in the embodiment shown of several single wedges, which cooperate with corresponding wedge-faces on the under side of the base 6. The wedge-piece 7 is slidably mounted on a cam-piece 8, secured in the casing 2, which cam-piece is provided on its upper side with recesses corresponding to recesses on the under side of the base 6.

To the wedge-piece 7 is hinged a bar 9, which is pivotally connected with an arm 10 of the trigger 12, pivoted at 11. With the wedge-piece 7 is pivotally connected by a

link 13 the cocking-lever 15, rotatable round the pivot 14. The cocking-lever 15 carries a movable lug 16, the purpose of which is clear from the following description of the mode of working the gun.

The trigger 12 is under the influence of a spiral tension-spring 4, secured at one end to the arm 10 and at the other end to the frame or receiver. The hammer 17 is guided in a space only partly open on the under side, which space is formed by the continuation 18 and 19 of the casing part 3 or of the upper part of the butt. The chamber 18 19 is closed at one end by means of a screw 21, provided with a nut 20, against the inner end of which screw bears a spiral spring 27 with its one end, the other end bearing against the hammer.

By adjusting the screw 21 the tension of the spring 27 can be regulated in known manner. The cartridge-magazine consists, as is clear from Figs. 2 and 4, of a double-walled cylinder, between the walls 22 and 23 of which the cartridges are arranged. The cartridges, which may be of any suitable number, (preferably the cartridge-magazine is selected of such size that it can hold ten cartridges,) are under the action of a longitudinally-wound spring 25 or the like, which has the tendency to remove the cartridges from the cartridge-magazine in the direction of the arrow in Figs. 2 and 4. The cartridge-magazine is slipped over the casing 2 and is supported by ledges 26 on the interior wall of the magazine, which engage in grooves or recesses in the casing 2. The magazine opens between the upper part 3 and the casing 2. It is provided with a flap 28, which is opened to charge the magazine and remains closed while the rifle is being used.

As is clear from Figs. 2 and 4, the casing 2 is closed on the one side with a preferably bent and double-armed lever 30 31, pivoted about the pin 29, which is under the action of the lug 32, provided on the movable base 6, and in the hereunder-described manner is kept closed or is open for the ejection of the empty shell.

The use and mode of working the rifle is as follows: Assuming the parts of the gun to be in the position shown in Fig. 3—for instance, that the hammer 17 is cocked—if in this position of the parts the trigger 12 is drawn back the wedge-piece 7 will be moved longi-

tudinally, whereupon the movable base 6 is raised and the cartridge lying thereon, which is fed from the cartridge-magazine by means of the spring 25, is pressed against the upper part 3 of the breech. Simultaneously the cocking-lever 15 is also rotated in the direction of the arrow in Fig. 3, whereupon the movable lug 16 of which bears on the surface 31 of the hammer 17 and moves the latter in the direction of the arrow 33. Hereby the spiral spring 27 is compressed, so that the hammer 17, when the face 31 slides over the lug 16, moves forward under the influence of the spring 27 and fires, Fig. 1. When after the firing of the shot the trigger 12 is released, the wedge-piece 7 under the action of the spring 4 automatically returns, so that the movable breech-base 6 is lowered. The movable base 6 possesses, as mentioned, a projecting lug 32, which in the bottom position of the base engages the arm 30, and thereby holds the lever 31 in the position shown in Fig. 4. On raising the base-piece the lever drops into the open position in the direction of the arrow shown in Fig. 2, so that the empty shells drop out at the side. On lowering the base after firing the shot the next full cartridge will throw out the empty casing from the recess in the base in Fig. 2 toward the right through the open side and itself fill the recess. On the further lowering of the base 6 the lug 32 abuts against the lever-arm 30, so that the lever is again brought into the position in Fig. 4. This operation is repeated on firing each shot. The returning movement of the cocking-lever 15 is rendered possible by the pivoted attachment of the lug 16, since this lug turns over in the drawing back of the cocking-lever 15. If the trigger is again pulled, then on raising the base 6 the cartridge is gripped between it and the upper part 3 and the breech is closed. The operation is repeated, as described.

The apparatus may be varied in many ways. Thus, for instance, the raising and lowering of the movable breech-base can be operated by other means. The magazine may also be of other construction. It is essential in every case that the cartridges are introduced from the side into the breech provided with the movable base and that all movements which are necessary for loading and unloading take place automatically, so that the marksman does not need to change his position before firing all the cartridges contained in the magazine.

I claim as my invention—

1. In a magazine-firearm, having lateral cartridge feed and ejecting mechanism, the combination of a vertically-movable breech-base and means operated by the trigger to raise the base and grip the cartridge in the breech-block, during the first part of the pull of the trigger, means for releasing the ham-

mer as the trigger is further pulled and for allowing the base to fall and the cartridge to be ejected after the trigger has been released.

2. In a magazine-firearm having lateral cartridge feed and ejecting device, the combination of a movable breech-base, having cam-surfaces on its under side, a sliding wedge-piece mounted thereunder to engage said cam-surfaces, means for connecting said wedge-piece to the trigger, and means for firing the hammer after the wedge-piece has been moved to raise the breech-base and for allowing the base to fall after the trigger is released.

3. In a magazine-firearm having lateral cartridge feed and ejecting mechanism, the combination of a movable breech-base, having cam-surfaces thereunder, a cam-piece mounted in the bottom of the breech-chamber, a movable wedge-piece to slide between said cams and raise and lower the base, a lever to link said wedge-piece to the trigger, a cocking-lever linked to said wedge-piece lever, and having a lug to release the hammer after the base has been raised, and means for returning the parts to their initial position after the trigger has been released.

4. In a magazine-firearm having lateral cartridge feed and ejecting mechanism, the combination of a movable breech-base, having cam-surfaces thereunder, a sliding wedge to raise and lower the same, means for operating the said sliding wedge from the trigger when the latter is pulled, to close the breech, a cocking-lever and means in connection therewith to cock the hammer as the wedge is withdrawn to raise the base, and to release the hammer at the end of the pull of the trigger and means for returning the parts to their initial position after the trigger has been released.

5. In a magazine-firearm having lateral cartridge feed and ejecting mechanism, the combination of a vertically-movable breech-base and means in connection with the trigger for raising and lowering the same when the trigger is pulled and released and for cocking and releasing the hammer during the pull on the trigger, a magazine encircling the breech-chamber and opening laterally into the same, and springs therein to force a cartridge onto the top of the breech-base when the latter is in its lower position, thereby throwing out the cartridge-shell, substantially as described.

6. In a magazine-firearm having lateral cartridge feed and ejecting mechanism, the combination of a vertically-movable breech-base and means in connection with the trigger for raising and lowering the same when the trigger is pulled and released and for cocking and releasing the hammer during the pull on the trigger, a magazine consisting of a double-walled cylinder, between the walls of

5 which the cartridges are held, the said magazine encircling the lower part of the breech-chamber and opening into the breech at the side thereof, spring mechanism to force the cartridge onto the top of the breech-base when the latter is in its lower position substantially as described.

In testimony whereof I affix my signature in the presence of two witnesses.

JOSEF LAUBER.

Witnesses:

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AUGUST FUGGER.