

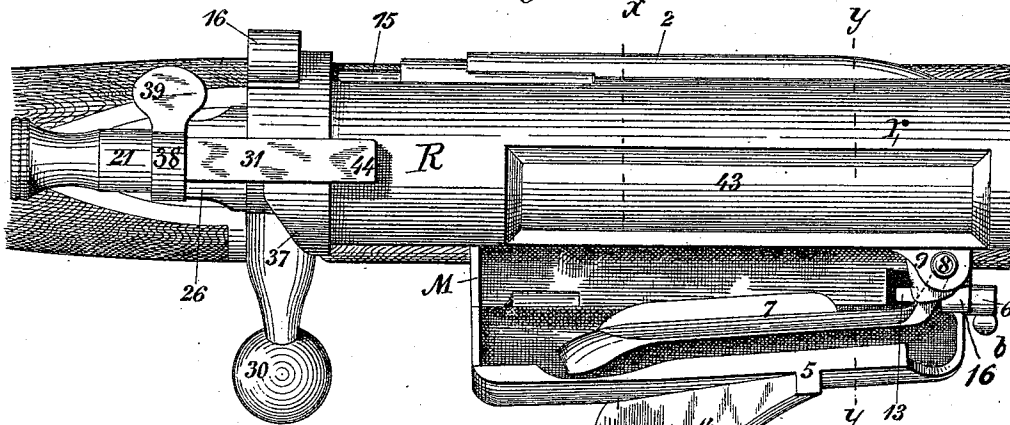
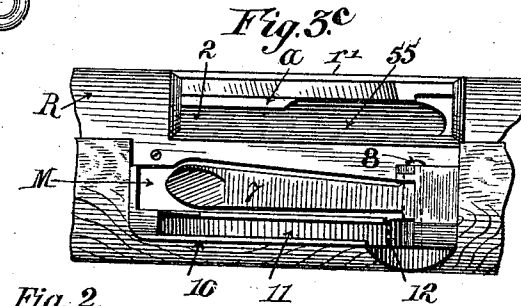
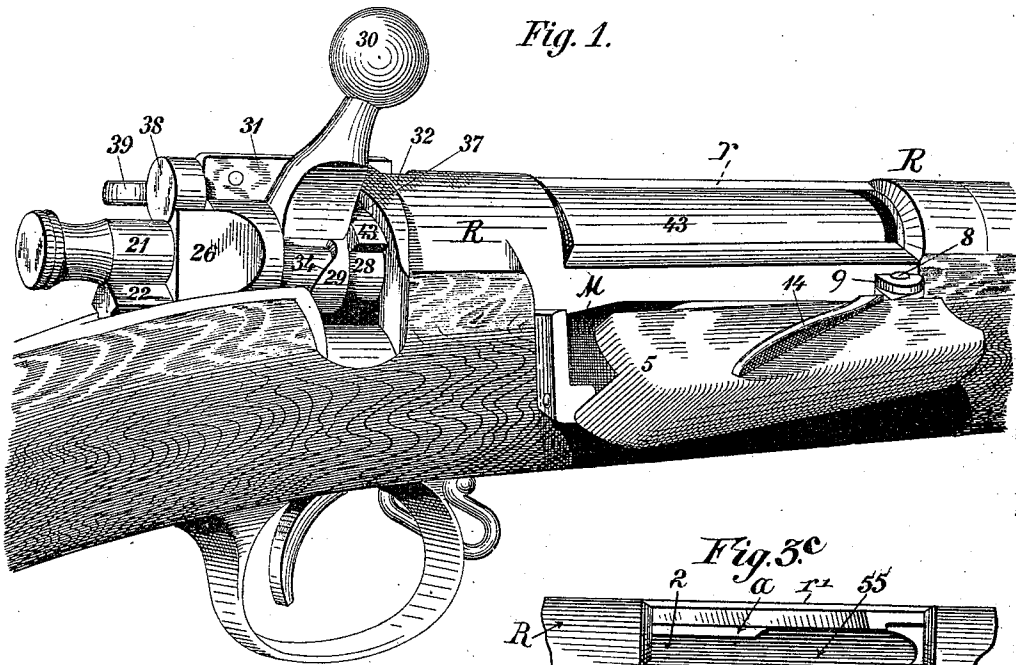
(Model.)

3 Sheets—Sheet 1.

O. H. J. KRAG & E. JØRGENSEN.
MAGAZINE GUN.

No. 492,212.

Patented Feb. 21, 1893.



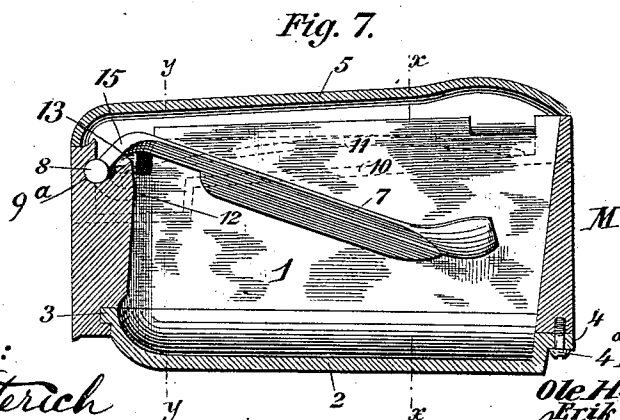
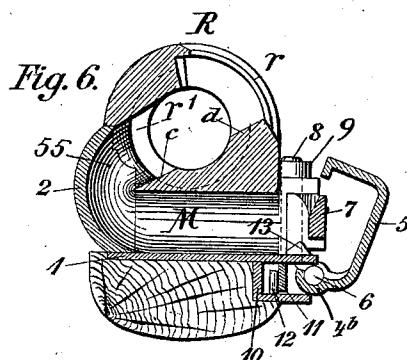
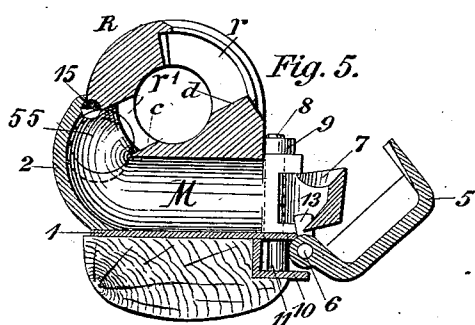
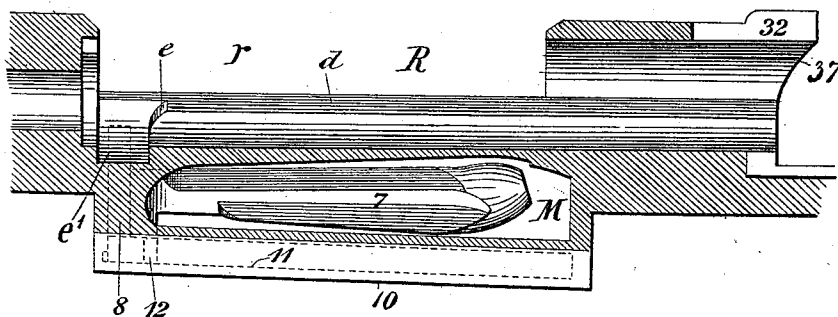
Witnesses:
H. G. Dieterich.
C. H. Sommers.

Inventors:
Ole H. J. Krag, and
Erik Jørgensen.
By Henry M. Th. Atty.

3 Sheets—Sheet 2.

MAGAZINE GUN.

Patented Feb. 21, 1893.



Witnesses:

H. G. Dieterich
P. H. Sommers

4 Inventors:

*Ole H. J. Krag, and
Erik Jørgensen,*

By Henry Otto *Atty:*

3 Sheets—Sheet 3.

No. 492,212.

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Fig. 8.

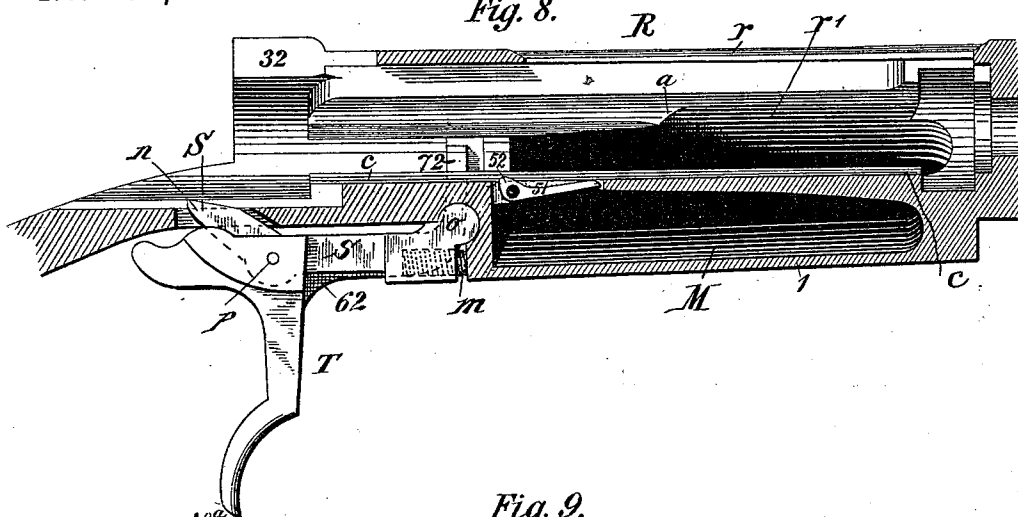


Fig. 9.

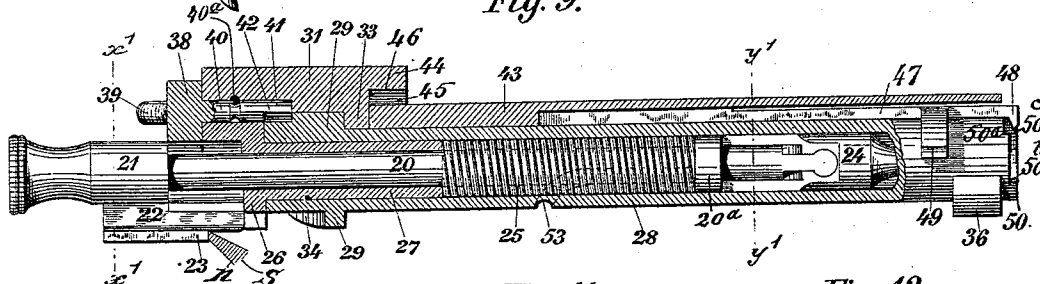


Fig. 10.

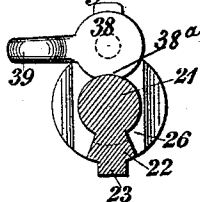


Fig. 11.

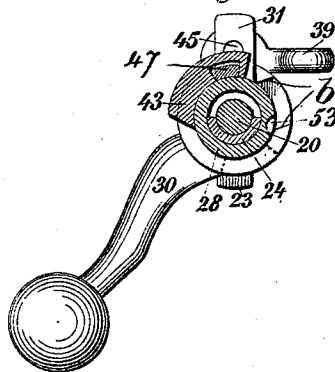


Fig. 12.

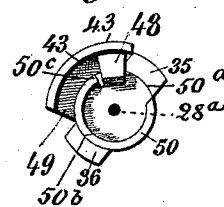


Fig. 13.

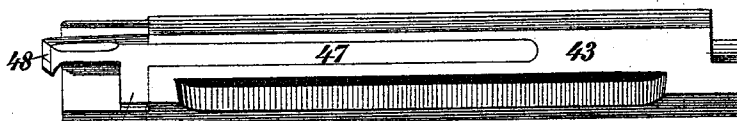
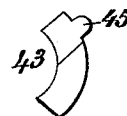


Fig. 13^a



Witnesses: ^{to} f
H. G. Dieterich
B. H. Sommers

Inventors:
Ole H. J. Kray, and
Erik Jorgensen,
By Henry O. Olin Atty

UNITED STATES PATENT OFFICE.

OLE HERMAN JOHANNES KRAG AND ERIK JÖRGENSEN, OF KONGSBERG, NORWAY.

MAGAZINE-GUN.

SPECIFICATION forming part of Letters Patent No. 492,212, dated February 21, 1893.

Application filed June 17, 1892. Serial No. 437,097. (Model.)

To all whom it may concern:

Be it known that we, OLE HERMAN JOHANNES KRAG and ERIK JÖRGENSEN, subjects of the King of Sweden and Norway, residing at Kongsberg, in the province of Kongsberg and Kingdom of Norway, have invented certain new and useful Improvements in Magazine-Firearms; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to breech-loading magazine guns, and it has for its object certain improvements on a similar gun shown and described in Letters Patent of the United States granted to us on the 10th of June, 1890, No. 429,811, whereby the construction of the breech mechanism and the manipulation of the gun are materially simplified, the invention consisting essentially in structural features and combinations of co-operative elements or parts, as will now be fully described, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view, and Fig. 2 a top plan view of so much of a breech-loading magazine gun as is necessary to illustrate our invention, the magazine gate being shown open, and the breech bolt in its unlocked and locked positions respectively. Fig. 3 is a front view of the magazine, the thumb piece being partly broken away. Fig. 3^a is an underside view of the magazine hinge pintle, and Fig. 3^b is a section taken on or about on line *w—w* of Fig. 3^a. Fig. 3^c is a side elevation of the magazine, the gate removed. Fig. 4 is a longitudinal section of the receiver and part of the gun barrel as seen from the left side, the tang at the rear end of the receiver being broken away. Figs. 5 and 6 are cross sections of the gun taken on or about on lines *x—x* and *y—y* of Figs. 2 and 7, the magazine gate being shown fully and partly open. Fig. 7 is a cross sectional view of the magazine. Fig. 8 is a longitudinal sectional view of the receiver as seen from the right side of the gun. Fig. 9 is a similar

view of the breech bolt, of which Figs 10. and 11 are cross sections on or about on lines *x'—x'* and *y'—y'* respectively, and Fig. 12 an end view thereof. Fig. 13 is an underside view of the shell extractor carrier, and Fig. 13^a an end view thereof.

Similar symbols indicate like parts wherever such may occur in the above described figures of drawings.

In order that our improvements may be more clearly set forth relatively to the construction shown and described in our patent hereinabove referred to, we will describe the several parts of the gun separately and then their co-operation.

The magazine and receiver.—Referring to Figs. 1 to 8 inclusive, R, indicates the receiver, and M, the magazine, which latter forms an integral part of said receiver and of the barrel, whereby the construction is materially simplified. But that access may be had to the magazine from both sides of the gun we preferably make the curved left hand wall, 2, of the said magazine detachable, and to this end the said wall is provided at its front end with a locking rib, 3, that fits a corresponding recess in the front wall of the magazine, and at its rear end said wall, 3, has a flange, 4, that is secured to the face of the magazine by means of a screw or screws, 4^a, see Fig. 7. Below the front edge of the magazine floor, 1, is formed a chamber or pocket extending along said magazine and having at each end a hinge knuckle, 16^b, Fig. 3, for the hinge pintle, 6, of the magazine gate, 5, and said gate is likewise provided with a hinge knuckle, 4^b. The rear hinge knuckle, 16^b, has a hole drilled through it at right angles to its axis for the reception of a locking pin, 18, that serves to lock the hinge pintle, 6, against endwise motion. To this end the rear end of the pintle is semi-cylindrical, and there is a notch, 17, cut in this semi-cylindrical portion at the point of junction of the latter with the cylindrical body of the pintle, as shown at Fig. 3^a, into which notch the pin, 18, extends, and thus holds the pintle against endwise motion. That the said pintle may be held against rotation in its bearings, it is provided at its forward end with an elastic or spring plate, 19, that has bearing on the forward knuckle, 16^b,

and the gate knuckle, 4^b, when the pintle is locked against endwise movement, see Figs. 3^a, and 3^b. In the front wall of the magazine, M, is formed a recess or bearing, 9^a, for the pivot pin, 8, of a feed lever, 7, that serves to feed the cartridges to the receiver, the upper end of said pivot having its bearing in a lug or ear projecting from the receiver, R, which lug is shown at 9, Figs. 1, 2, 5, 6, and 7. At its forward end the gate, 5, has a lug, 3, Figs. 2, 5, 6 and 7, that engages the neck or curved portion, 15, at the pivot end of the feed lever, 7, as soon as the gate is slightly opened (Fig. 6) by pressure on the thumb piece thereof, and as the gate is caused to swing downward the said lug moves the feed lever outwardly out of the way, so as to admit of the introduction of cartridges into the magazine, see Figs. 1, 2, and 5. In the chamber or pocket, 10, below the front or gate edge of the magazine, M, is placed a flat convex spring, 11, in such a manner that its convex face bears upon the hinge knuckle, 4^b, of the gate 5, the forward end of said spring having a pin or lug in perpetual engagement with the radial arm, 12, projecting from the lower end of the pivot pin, 8, as shown in dotted lines in Figs. 4 and 7. The pressure exerted by the spring, 11, upon the hinge knuckle, 4^b, of the gate is sufficient to hold the same against movement either when the gate is fully opened or when it is closed. The free end of the said spring exerts sufficient pressure upon the radial arm 12, of the pivot pin, 8, to force said lever inwardly against the cartridges when the magazine gate is closed to feed said cartridges to the receiver. It is obvious that as the gate swings downwardly and the feed lever outwardly, the latter moves against the stress of the spring, 11, thereby increasing the tension of the same and correspondingly increasing the pressure exerted by the spring on the hinge knuckle, 4^b, whereby the gate is held in position when open. In order to increase the points of contact between the spring and hinge knuckle, the latter is preferably flattened at said point, so as to present a plane bearing to the spring. The receiver, R, has in its upper wall a longitudinal slot or opening, *r*, extending from about the center of the receiver toward the right thereof, and diametrically opposite said opening, *r*, is formed a second opening, *r'*, the faces, *d*, and *c*, of said openings forming guide surfaces for the lugs, 35 and 36, at the front end of the breech bolt, and said faces are extended beyond the openings or slots, *r*, and *r'*, nearly the full length of the receiver. Through the opening, *r*, the empty cartridge shells are ejected, or cartridges may be introduced into the receiver, R, through said opening when the gun is used as a single loader, and through the opening, *r'*, the cartridges pass from the magazine to the receiver. As shown in Fig. 8, the opening or slot, *r'*, is contracted for a portion of its length, or from the point, *a*, rearwardly, so that only the flange of a cartridge lying in

said slot will project into the slot, but when it is desired to use the gun as a single loader, and the magazine is not empty, it is necessary to provide means for holding the cartridge at the slot, *r'*, back sufficiently to prevent its flange from projecting into the receiver and into the path of the breech bolt or a lug thereon. To this end a stop pin, 15, provided with a thumb piece, 16, (Figs. 2 and 5) is seated in the rear enlarged end of the receiver, the forward end of the said pin projecting into the passage, 55, leading from the receiver to the magazine at the upper rear edge of the slot, *r'*. That portion of the pin within the passage is semi-cylindrical, so that when it is turned into the position shown in Fig. 5, it will obstruct the slot sufficiently to prevent the flange of the cartridge thereat from projecting into the receiver. As above stated the rear end of the slot *r'* is sufficiently contracted to prevent a cartridge from passing there-through, the guide face, *c*, forming one of the longitudinal walls of said slot while the opposite longitudinal wall thereof along the contracted portion also acts as a guide for the lug 36 when the latter moves in said contracted portion of slot, *r'*, so as to engage the flange of a cartridge projecting into the slot and carry the same forward through the enlarged portion of said slot into the breech of the gun. The rear face, 37, of the receiver is inclined rearwardly, and near its forward end said receiver is provided with a rearwardly inclined shoulder, *e*, as shown in Fig. 4, and for purposes presently to be described.

The breech bolt.—Referring now to Figs. 9 to 13^a inclusive: The breech bolt consists essentially of a tube, 28 that is provided near its forward end with the two locking lugs, 35, and 36, that fit a suitable recess in the forward end of the receiver when the breech bolt is in its normal position closing the breech chamber and locking the bolt against endwise motion. At said forward end the breech bolt is provided with an annular flange or shoulder, 50, a portion of which is cut away to accommodate the extractor hook, as shown at 50^a, while another portion of said flange is shallower from about the point 50^b, to the cut away portion or to the point, 50^c, Fig. 12, for purposes hereinafter explained. At its rear end the breech bolt is of increased diameter, and on this enlarged portion, 29, is formed a spirally inclined shoulder, 34, and on said enlarged portion of the breech bolt is mounted the hand lever, 30, so as to bear against the rearwardly inclined face, 37, at the rear end of the receiver. This end, 29, of the breech bolt is also provided with a radial slot, *b*, shown in Fig. 11, of such width as to admit of the passage of an overhanging arm, 31, on a retaining or locking sleeve, 27, and when said parts are assembled so that the depending lug, 33, on said arm lies in front of the said enlarged end of the breech bolt and the sleeve is partly turned, said parts will be securely locked together. The firing pin, constructed

substantially as described in our Letters Patent aforesaid, is contained in the breech bolt and carries at its rear end a hand hold or pull knob, 21, the striking point of the jointed portion, 24, of the pin projecting through an axial opening, 28^a, Fig. 12, in the forward closed end of the breech bolt when projected by its spring, 25, in firing. The pull knob, 21, has on its underside a longitudinal rib, 22, fitted and sliding in a slot in the rear end of the receiver and having the full cock shoulder, 23. Within the breech bolt, 28, at the rear end thereof is located the retaining or lockingsleeve, 27, hereinbefore referred to, against the front end of which one end of the actuating spring, 25, abuts, the other end of said spring abutting against a collar, 20^a, on the firing pin. The rear end, 26, of the sleeve is of increased diameter and has formed thereon a forwardly projecting or overhanging arm, 31, which is under-cut at its forward end, 44, as shown at, 46, Fig. 9, to form a recess for purposes presently to be explained, said arm extending into a longitudinal slot formed in the rear end of the receiver, R. The lockingsleeve, 27, has near the forward end of the arm, 31, a depending lug, 33, that lies in front of the shoulder formed by the enlarged end of the breech bolt, and in said arm is formed a socket bearing for a locking pin, 40, the end of which projects into a semi-cylindrical recess 42 formed in the enlarged rear end, 29, of the breech bolt. The end, 41, of the pin, 40, that projects into the said recess, is also semi-cylindrical, so that when the pin is in the position shown in Fig. 9, the breech bolt has free rotary motion in the receiver but when the position of the pin is reversed, so that its half cylindrical end, 41, will lie in said recess, the breech bolt is locked against rotation. The locking pin, 40, has at its rear end a cylindrical head, 38, provided with a thumb piece or handle, 39, and in the underside of said head is formed a concave recess, 38^a, Fig. 10, the arc of said recess having for its center the center of the cylindrical pull knob, 21, of the firing pin, 20, so that when said pin is in the position shown in Figs. 9 and 10, the firing pin has free motion in the breech bolt, but when the position of the pin is reversed as above set forth after the firing pin has been drawn out to the position of full cock, Fig. 9, the recess, 38^a, will be moved out of the path of the knob, 21, of the firing pin, which latter is thereby locked against forward motion, so that by a half revolution, more or less, of the pin, 40, the firing mechanism is locked out of operation. The pin, 40, is held against endwise motion in its socket bearing by a pin, 40^a, inserted from the side of the gun, 31, and projecting into a peripheral groove of the pin, 40.

The extractor and ejector.—Referring to Figs. 8, 9, 11 and 13, the extractor, 47, consists of a plate the forward end of which is attenuated to give it more or less elasticity, and at said forward end the plate is provided with

a hook, 48, adapted to snap over the rim flange of a cartridge when the breech bolt moved into position to close the breech, a hook overhanging the breech bolt and lying in the cut-away portion, 50^b, of the annular flange, 50. At the outer end of said breech bolt, and near said hook end, the extractor is provided with a lateral curved arm, 49. The extractor carrier consists of a concavo-convex plate, 43, held loosely on said bolt, in the lug, 45, Figs. 11 and 13^a, on the rear end of said carrier fits in the undercut or recess, 46; at the outer end of the overhanging arm, 31, of the locking sleeve, 27, whereby said plate, 43, is held against lateral motion relatively to the arm, 31. The extractor carrier, 43, has a dovetailed groove, Fig. 11, formed in its under side, in which groove the extractor, 47, is loosely inserted, and the said carrier also provided on its underside with a shoulder or abutment, *f*, against which the curved arm, 49, on the extractor bears. By means of the construction described the extractor, and its carrier (the plate 43) are detachably secured together and to the breech bolt so that they can be readily removed. As shown in the drawings the extractor carrier 43 is of such dimensions as to substantially close the opening, *r'* in the receiver, said carrier performing the function of a dust cover for the bolt as well as for the receiver when said bolt is in its normal position, as shown in Fig. 1. The trigger, T, Fig. 8, is provided with a forwardly projecting arm, 62, the end of which is bent at right angles and projects through a slot in the receiver into the path of the lug, 35 on the breech bolt, as shown at 72, whereby the rearward motion of said bolt is limited. By pulling the trigger rearwardly to move the arm, 72, out of the path of the lug, 35, the breech bolt may be pulled out of the receiver. S, indicates the sear lever crumpled on a pin, *p*, to the trigger, T, and totally connected to the receiver at its forward end which is provided with a circular head, *o*, loosely seated in a corresponding recess in said receiver. Below its pivot the lever is provided with a socket for an acting spring *m*, that holds the nose, *n*, of the lever in the path of the full cock shoulder, 23, of the breech bolt. By means of the described construction, if the barrel and receiver is removed from the gun stock and the trigger, T, pulled back, as in firing, so as to move the sear and arm, 72, clear of the openings in the receiver the trigger and lever can be detached by simply pushing them to one side (to the right, for instance) to move the head, *o*, out of its recess in the under side of the receiver. The shell ejector, 51, 52, Fig. 8, is precisely of the same construction as that described in our Letters Patent hereinbefore referred to, the heel, of said ejector lying in a groove, 53, Fig. 11, of the breech bolt, and will therefore need no further description.

The operation of the breech mechanism

lows:—Assuming the magazine, M, to be loaded with cartridges, the gate, 5, closed at the feed lever, 7, bearing on the last cartridge will under the stress of its spring, 11, hold the first cartridge with its nose projecting slightly into the narrower part of the slot, r' , in receiver, R, and assuming that the breech chamber contains a cartridge and the firing pin is at full cock, on pulling the trigger, T, rearwardly the firing pin is released and is thrown forward by its spring and explodes the cartridge; the rib, 22, on the underside of the pull knob or handle, 21, of the firing pin, now abuts against the rearwardly inclined face, 34, formed on the rear end, 29, of the breech bolt, 28. If the hand lever, 30, is now turned from its normal or locking position, Figs. 2 and 11, to the position Fig. 1, both the breech bolt and the firing pin will be moved rearwardly to the position shown in Fig. 9, by the inclined faces, 35 and 36 on which the locking sleeve and the hand lever have bearing, as above set forth. By this partial rotation of the breech bolt the lugs 35 and 36 will be moved out of the annular locking recess at the forward end of the receiver, R, and have bearing on the inclined longitudinal guide faces, c , and d , thereof, the lug 36, now lying in front of the arm, 49, of the extractor, 47, so that the latter will also be moved rearwardly together with the breech bolt and firing pin, thereby starting the empty cartridge shell in the breech of the gun so that it may be readily withdrawn when the breech bolt is moved rearwardly, which can now be done. As the breech bolt is about to reach the limit of its rearward motion the trigger lever, 51—52, ejects the empty shell of the receiver through the slot, r . If the breech bolt 28, after having been moved rearwardly as far as this can be done, that is to say, until its rearward motion is arrested by the arm, 72, of the trigger, T, coming in contact with the lug 35, at the forward end of the breech bolt, and the said breech bolt is then moved forward, the said lug, 35, will engage the rim of the cartridge in slot, r' , and carry the same along with it until it reaches the rear end of the slot, when by reason of the curvature of the passage, 55, and the outer end of the slot, said cartridge will be guided into the receiver R, and thence into the breech of the gun. After the breech bolt has been moved forward a certain distance, the full cock shoulder, 23, on the pull knob, 21, of the firing pin, will contact with the sear, S, whereby the further forward movement of said firing pin is prevented, and as the breech bolt moves to the limit of its forward motion the spring, 25, of the firing pin is brought under tension by the locking sleeve, 27, against the forward end of which one end of the said spring bears. The handle or lever, 30, may now be turned back to its normal or locking position, Figs. 2 and 11, whereby a partial rotation is imparted to the breech bolt, the rear faces of the lugs 35 and 36 at the same time engaging

the rearwardly inclined face or shoulder, e , formed by the rear face of the annular locking recess, e' , in the forward end of the receiver, Fig. 4, thereby drawing the bolt to its seat and locking the same to and closing the breech of the gun, the hook, 48, of the extractor at the same time snapping over the rim or flange of the cartridge in the breech of the gun. The annular flange, 50, partly cut away at 50^a, for the accommodation of the extractor hook, 48, and made shallower from a point, 50^b, to the point, 50^c, Fig. 12, and, as hereinbefore described, serves as an abutment for the butt end of the cartridge. When the breech bolt is revolved to unlock the same, by which movement a rearward motion is imparted to said bolt and extractor whereby the empty shell is also partly moved out of the breech of the gun, the said shallower portion of the flange acts upon the extractor hook and lifts the same slightly, so that the said hook will have just sufficient hold on the shell to carry the same along with it when the breech bolt is moved rearwardly as described, thereby facilitating the ejection of the empty shell from the receiver.

Having thus described our invention, what we claim as new therein, and desire to secure by Letters Patent, is—

1. In a breech loading magazine gun, the combination with the magazine having its feed opening on one side of the gun, a gate for closing the opening hinged to the magazine so as to swing downwardly, said gate being provided with a lug, 13, a feed lever arranged within the magazine, a vertical pivot for said lever one end of which projects out of the magazine, said outwardly projecting end being provided with a radial arm, of the convex leaf spring, 11, having bearing on said radial arm and on the hinge knuckle of the gate, substantially as and for the purpose set forth.

2. In a breech loading magazine gun, the combination with the magazine provided with two hinge knuckles, 16^b, one of said knuckles being provided with a pin hole at right angles to its axis, and the gate, 5, provided with a hinge knuckle, 4^b, of the hinge pintle, 6, one end of which is semi-cylindrical and provided with the locking notch, 17, and the elastic plate, 19 at the other end of said pintle, substantially as and for the purpose set forth.

3. In a breech loading magazine gun, the barrel, receiver, and a magazine open on opposite sides of said receiver, said parts being formed integral, the side wall, 2, and a gate for closing said openings, said side wall and gate being detachably secured to the magazine, for the purposes set forth.

4. In a breech loading magazine gun, the combination with the magazine having its feed opening on one side of the gun, a gate for said opening arranged to swing downwardly, and a feed lever in engagement with the gate and having its pivot proximate to said feed opening on one side thereof; of a spring adapted

to actuate the feed lever to move the same into the magazine, said spring located outside of the magazine, for the purpose set forth.

5 In a breech loading magazine gun, the combination with the receiver, the breech bolt provided at its forward end with the locking lugs 35 and 36, and the locking sleeve, 27, having a forwardly projecting arm, 31, undercut or recessed at 45, and an extractor carrier 10 provided with a lug fitting into said recess, and with a dove-tailed longitudinal groove, of an extractor consisting of a more or less elastic plate fitted in the groove of the carrier and having an extractor hook at one end 15 and a curved arm projecting laterally therefrom near the hook end, said lug, 36, engaging said curved arm when a partial rotation is imparted to the breech bolt in a given direction, substantially as and for the purpose 20 set forth.

6. In a breech loading gun, the combination with the receiver provided with two guide faces, *d*, and *c*, extending nearly the full length of the receiver, and with a lateral slot, *r'*, of which the guide face, *c*, forms one of the walls, said slot being contracted at its rear end; of the breech bolt having lugs, 35 and 36 at its forward end, said lug, 35, having bearing on the guide face, *d*, and said lug, 36, having bearing on the guide face or wall, *c*, when moving along the wider portion of the slot, *r'*, and on both walls of said slot when moving along the narrower portion thereof, for the purpose set forth.

35 7. In a breech loading gun, the combination with the receiver and the trigger provided with an angular arm projecting into the receiver near its rear end, of the breech bolt provided at its forward end with a radial lug 40 engaging said angular arm on the trigger when said bolt has reached the limit of its rearward motion whereby said bolt may be removed from the receiver by pulling the trigger rearwardly, substantially as set forth.

45 8. In a breech loading magazine gun, the combination with the receiver, the breech bolt and the locking sleeve, 27 having forwardly projecting arm, 31, recessed at 46, of the extractor carrier consisting of a plate, 43, concavo-convex in cross-section, provided at its rear end with a lug, 45, fitting loosely into recess, 46, and with a longitudinal dove-tailed groove, an extractor consisting of a plate, 47, having a portion thereof attenuated to give 50 it elasticity, the body of said plate being loosely fitted in the dove-tailed groove of the carrier, and an extractor hook at the end of the attenuated portion of the extractor, and a locking device to lock the extractor and car-

rier against endwise motion independently of 60 said breech bolt when the latter is moved back into the receiver, substantially as and for the purpose set forth.

9. In a breech loading magazine gun, the combination with the receiver having guide 65 bearings, *d*, and *c*, and breech bolt having at its forward end two lugs, 35, and 36, guided by said bearings when the bolt is positioned for rectilinear motion, of the trigger, *T*, and an angular arm or lever, 62, the vertical 70 branch of which projects into the receiver in the path of the lug, 36, when the breech bolt is pulled rearwardly to limit the motion of said bolt, said trigger being adapted to actuate the angle lever for the purpose of with- 75 drawing its vertical arm from the path of the lug, for the purpose set forth.

10. In a breech loading gun, the combination with the receiver, of the breech bolt and the extractor connected therewith, said bolt 80 provided at its forward end with a substantially circular abutment, 50, for the butt of the cartridge, said abutment being recessed to accommodate the extractor hook and provided with an inclined or cam face acting on 85 said hook to lift the same when a partial rotation is imparted to the bolt in one direction, for the purpose set forth.

11. In a breech loading gun, the combination with the magazine having its feed opening on one side of the gun, a gate for said 90 opening arranged to swing downwardly, a feed lever pivoted within the magazine, and a single spring acting on the gate and feed lever to hold said gate yieldingly when open 95 or shut, and force the feed lever into the magazine when the said gate is shut, for the purposes set forth.

12. In a breech loading gun, the combination with the magazine having its feed opening 100 on one side of the gun, a gate for said opening, and a pivoted feed lever in engagement with the gate and having its pivot proximate to said feed opening on one side thereof; of a single spring acting on the gate 105 and feed lever to hold the said gate yieldingly when open or shut, and force the feed lever into the magazine simultaneously with the closing of the gate, for the purpose set forth.

In testimony whereof we affix our signatures in presence of two witnesses.

OLE HERMAN JOHANNES KRAG.
ERIK JÖRGENSEN.

Witnesses:

ALFRED BRYN,
L. DAAE.