

No. 711,218.

Patented Oct. 14, 1902.

H. H. KRYGER.  
MACHINE GUN.

(Application filed May 6, 1901. Renewed Aug. 4, 1902.)

(No Model.)

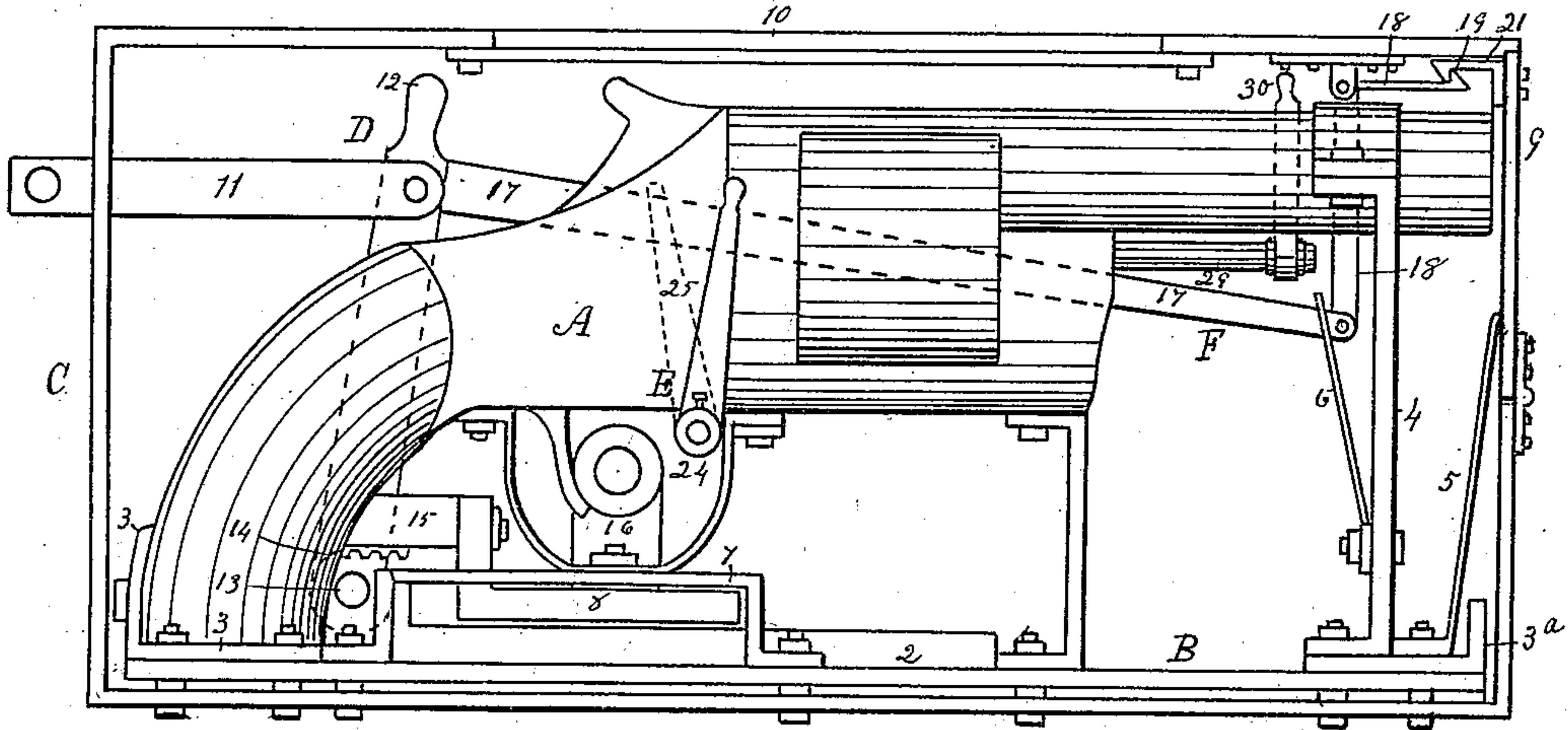
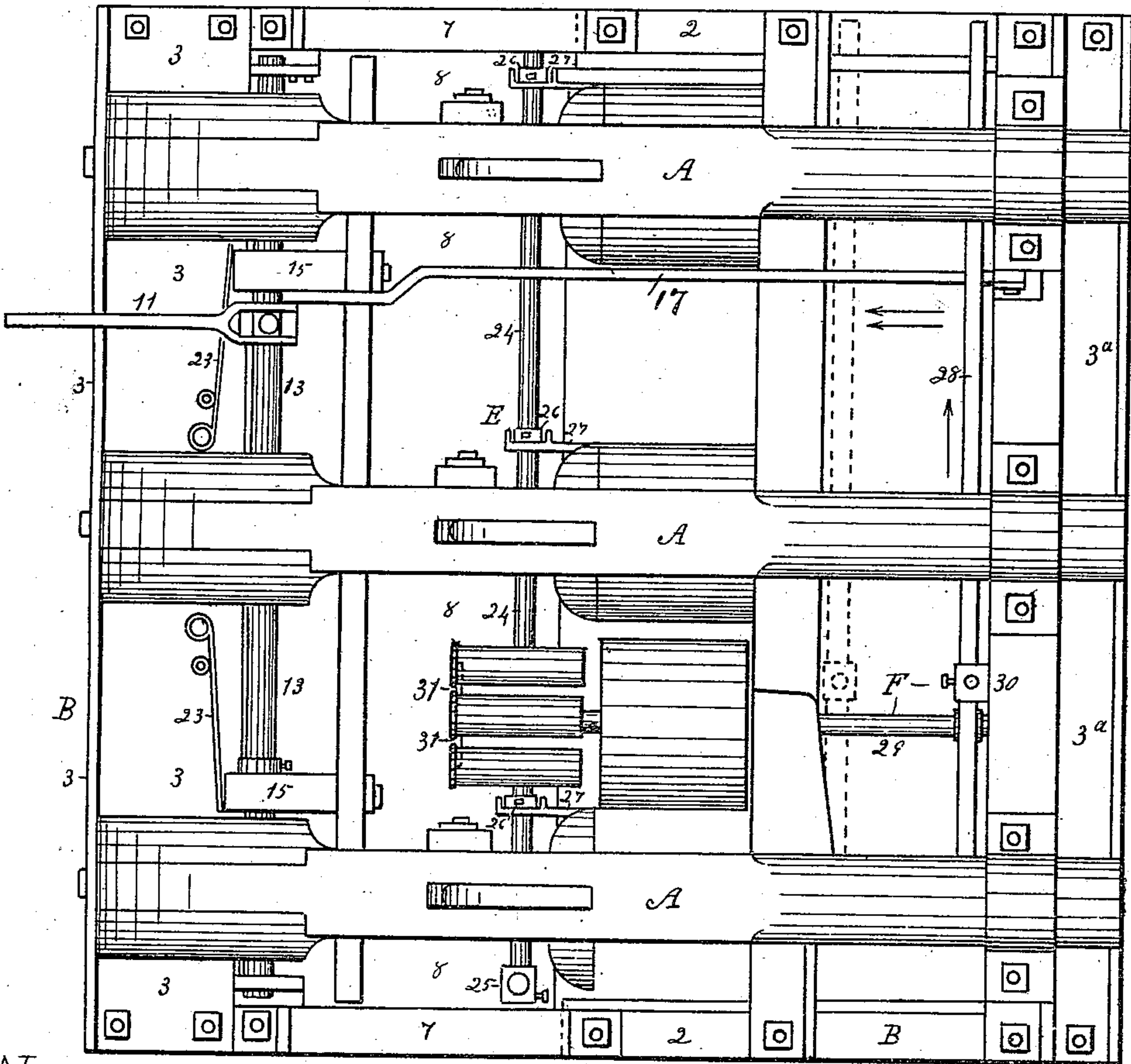


Fig. 1-



WITNESSES  
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Fig. 2-

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# UNITED STATES PATENT OFFICE.

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## MACHINE-GUN.

SPECIFICATION forming part of Letters Patent No. 711,218, dated October 14, 1902.

Application filed May 6, 1901. Renewed August 4, 1902. Serial No. 118,323. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY H. KRYGER, a citizen of the United States, residing at Minneapolis, county of Hennepin, and State of Minnesota, have invented new and useful Improvements in Machine-Guns, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to firearms; and it consists in forming a "battery" of short guns (revolvers) adapted to being fired in rapid succession, in concealing the said battery in a metallic case, thereby masking the guns to protect them from injury, in means for simultaneously opening the said case and for firing the said battery, other means for releasing the cylinders of the several guns forming the battery after the same have been discharged, and still other means for removing the cylinders of the several guns forming the battery, for forcing the empty shells therefrom, and for returning the said cylinders to their respective chambers.

The purpose of the invention is the protection of mail and express cars, bank-vaults, office-safes, the treasure-rooms of vessels, and the like, my mode of application being to place my concealed battery in positions to guard the same and when necessary to fire the same from other compartments of the cars, building, or vessels through the use of means hereinafter described.

To these ends my invention consists of the device shown in the accompanying drawings, in which—

Figure 1 is an end view of my battery, (the end of the case being left open;) and Fig. 2, a top of the same, the top of the case being left open.

Similar letters and numerals refer to similar parts in both views, A being the guns; B, the frame upon which the said guns are mounted; C, the case in which the said frame is concealed; D, the firing mechanism; E, the cylinder-releasing mechanism, and F the shell-extracting mechanism.

The guns A of which my battery is constructed are of the self-cocking types of revolvers, such being best adapted to my purpose. They are securely affixed to the frame B by means of the bolts 1. The frame B is as large as will enter the case C, and there-

fore needs no attachment thereto. It may be fashioned to conform to the types of guns used, the particular form thereof not being an essential feature of my invention. As herein shown, it consists of the rails 2, connected at their ends by the angle-irons 3 and 3<sup>a</sup>, the former, 3, having its upwardly-extending portion inwardly curved to conform to the butts of the guns A and serves to hold them securely in place, while the latter, 3<sup>a</sup>, serves as a foot-rest for the vertical clamps 4, which in turn clamp and support the barrels of the guns A, and also as a support for a spring 5, which operates to throw open a door 9 of the case C, hereinafter described. To the vertical clamps 4 is affixed a spring 6, which constitutes a part of the firing mechanism D and as such will be described in its order.

To the end rails 2 of the frame B are affixed guides 7, which serve to hold in place a shifting-bar 8, which is also a part of the firing mechanism D.

The case C, I preferably fashion of sheet-steel; but do not confine myself to any particular material, my only purpose being to have it bullet-proof. It is fashioned with a door 9, hinged at its lower edge, and with a removable cover 10 upon its upper side.

The firing mechanism D consists of the draw-bar 11, the lever 12, the rock-shaft 13, the toothed pinion 14, the rack 15, the before-mentioned shifting-bar 8, the lug 16, the connecting-rod 17, the bell-crank 18, the latch 19, and the spring 5. The draw-bar 11 extends out through the case C and is used in operating (cocking and firing) the concealed battery. To this draw-bar 11 may be affixed a cord or wire, by means of which it is actuated, which cord or wire may extend to another compartment of the car, building, or vessel, or an electric wire may be affixed thereto and the said draw-bar be actuated by electrical energy; but as such means are common and form no part of my invention I do not deem it necessary to show or describe them herein. The lever 12 is affixed to the rock-shaft 13, which rock-shaft carries a toothed pinion 14, the teeth of which engage those of the rack 15, which rack is secured to the shifting-bar 8. This shifting-bar 8 carries as many lugs 16 as there are guns in the



battery, which lugs as the shifting-bar 8 is actuated contact with the triggers of their respective guns and draw them rearward, thereby simultaneously discharging all of the guns. The connecting-rod 17 is affixed to and is actuated by the lever 12. Its purpose is to actuate the bell-crank 18, one arm of which is terminated in a latch adapted to interlock with a similar latch 21, affixed to the door 9 of the case C, and operates (when the said connecting-rod is drawn rearward) to release the said latch 19, when the spring 5 (through its reflex action) will throw the door 9 open, and at the same time the lugs 16 of the shifting-bar 8 will actuate the several triggers, thereby cocking and firing the guns. The spring 6 serves (by its reflex action) to throw the bell-crank 18 back to its normal position after it has been deflected by the said connecting-rod 17, and the spring 23, affixed to the floor of the case C or to some part of the frame B, by bearing against the rear end of the rack 15 operates to throw the shifting-bar 8, and with it the rack 15, the lever 12, and the rack 13, back to their normal positions after the battery has been discharged.

The cylinder-releasing mechanism E consists of a suitably-supported shaft 24, extending the length of the battery, an operating-lever 25, affixed thereto, cams 26, (as many in number as there are guns in the battery,) mounted thereon, said cams engaging with and operating catches 27, which in turn serve to hold the cylinders of the "revolvers" within their respective chambers. Its operation will hereinafter be set forth.

The shell-extracting mechanism consists of the shifting-bar 28, connecting the several swing-arms 29 of the guns A, the handle-bar 30, thereunto affixed, and the shell-extractors 31, (as many as there are guns,) operated thereby. Its operation in connection with the cylinder-releasing mechanism is as follows: After the battery has been discharged and it is necessary to recharge the several cylinders I grasp the operating-lever 25 of the cylinder-releasing mechanism E and draw it rearward, (to the position shown by the dotted lines,) thereby rocking the shaft 24, and with it the

cams 26, which in turn draw back the catches 27, thereby unlocking or releasing the several cylinders. I then grasp the handle-bar 30 of the shell-extracting mechanism F and with it move the shifting-bar 28 longitudinally in the direction of the single arrow, thereby moving the swing-arms 29 of the several guns, (thus carrying their cylinders out and away from their respective chambers,) thence laterally in the direction of the double arrows to the position shown by the dotted lines, thereby forcing the empty shells out of their respective chambers through the operation of the shell-extractors 31, which in turn are acted upon by the swing-arms 29, (now serving as push-pins,) thence in a direction opposite to that indicated by the double arrows, thereby withdrawing the swing-arms, (push-pins,) thence longitudinally in a direction opposite that indicated by the single arrow to the point of starting, thereby throwing the swing-arms 29 to their normal position and carrying the several cylinders back to and within their respective chambers.

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

1. In a machine-gun, the combination of the case, a frame therein, guns secured to the said frame and covered by the said case, and means for simultaneously opening a door of the said case and for firing the said guns, substantially as shown and described.

2. In a machine-gun, the combination with the case, a frame inclosed thereby, guns mounted upon the said frame, and means for firing the said guns; of the cylinder-releasing mechanism, herein shown and described.

3. In a machine-gun the combination with the case, a frame inclosed thereby, guns mounted upon the said frame, and means of firing the said guns; of the shell-extracting mechanism herein shown and described.

HENRY H. KRYGER.

Witnesses:

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META ARF.