(No Model.) 3 Sheets—Sheet 1.

C. SCHNIPPERING.

CARTRIDGE MAGAZINE FOR BREECH LOADING SMALL ARMS.

No. 488,456. Patented Dec. 20, 1892.

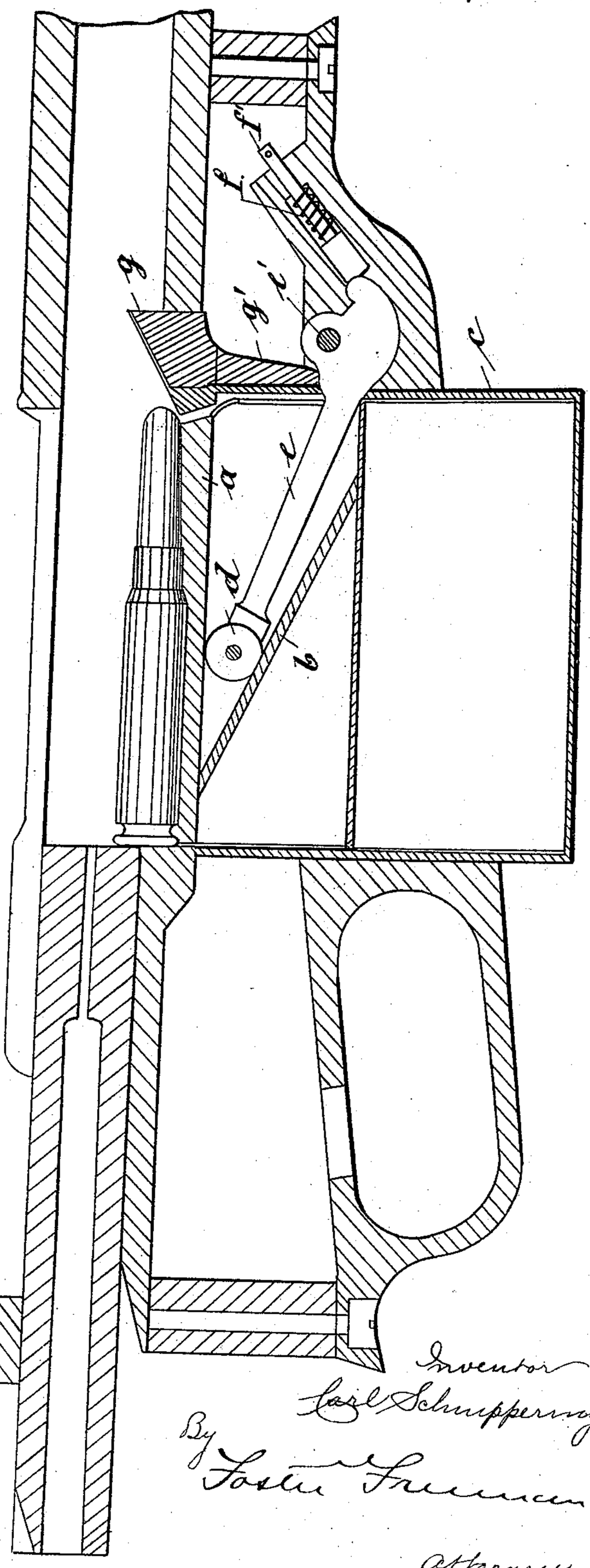

Fig. 1.

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Fig. IV.

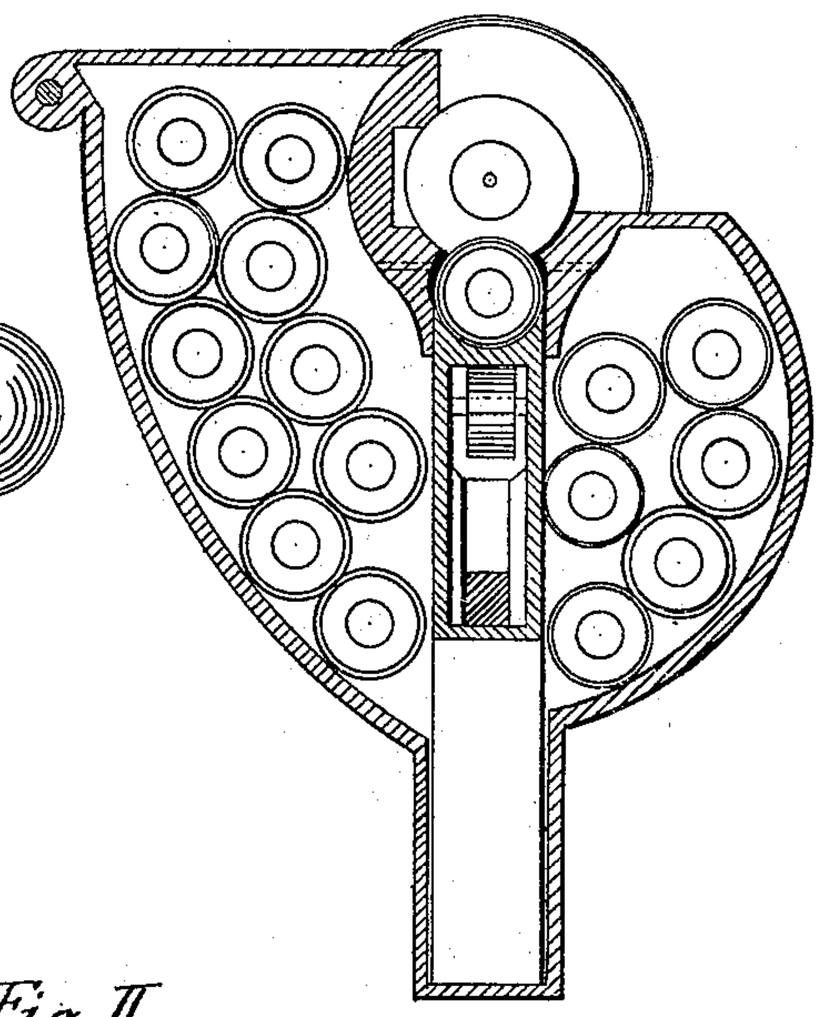

Fig. V.

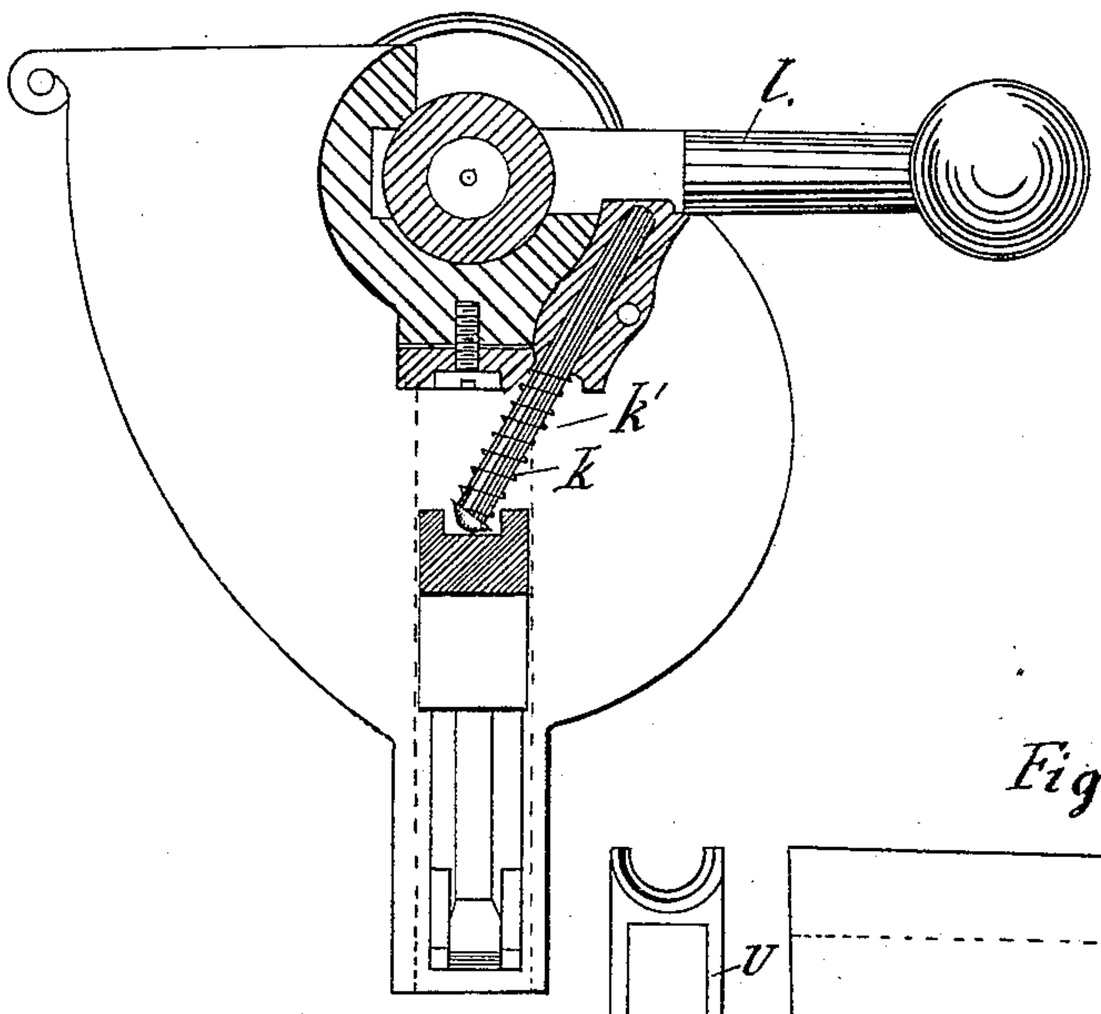

Fig. II.

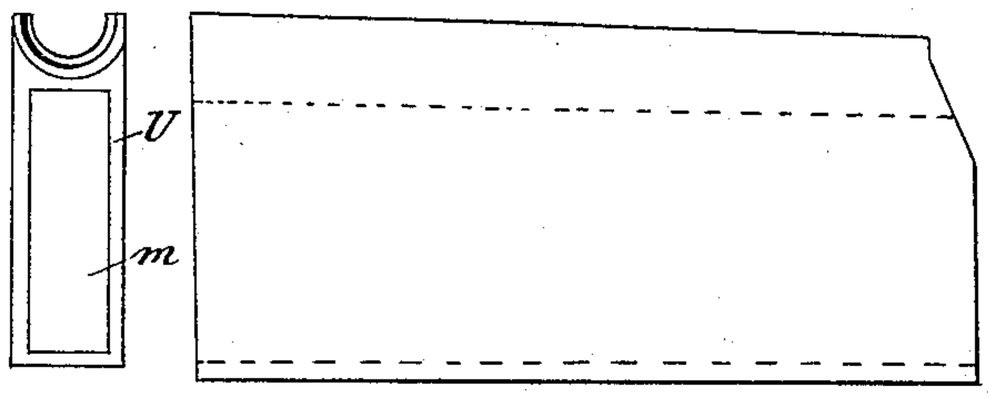

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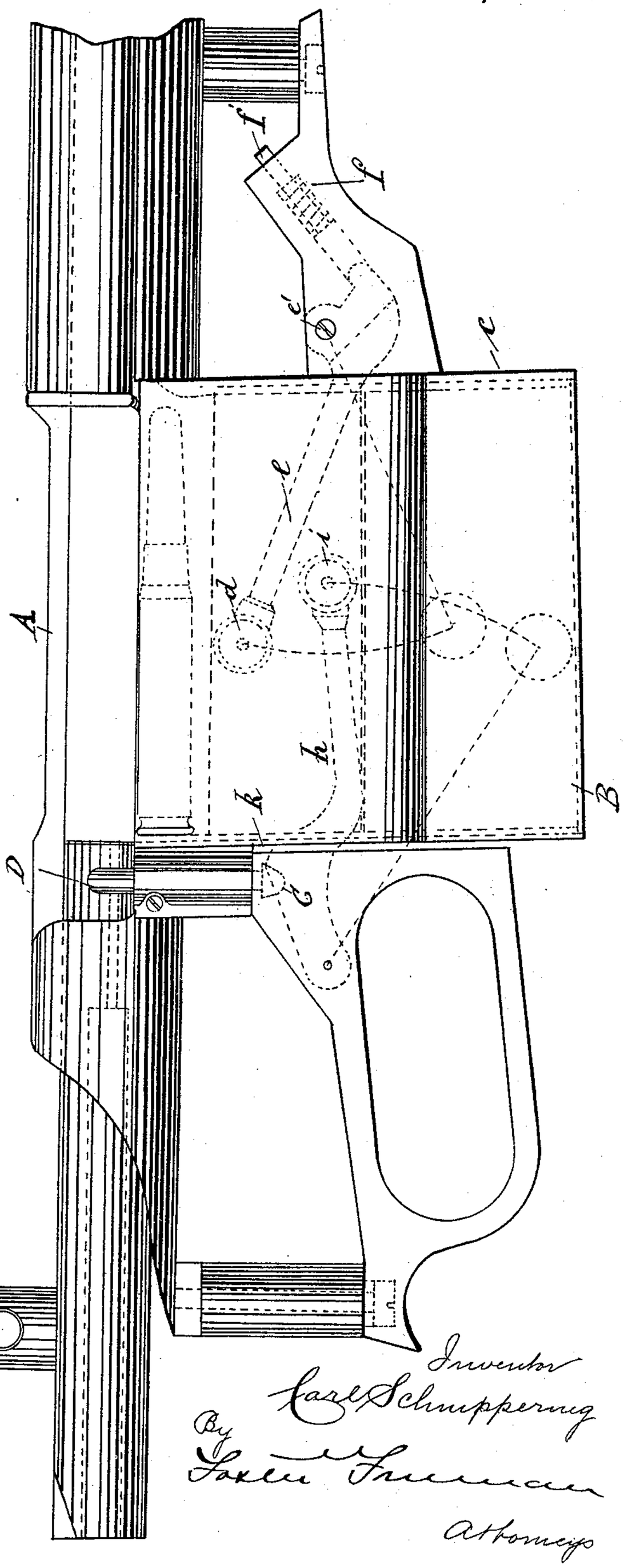
Fig. III.



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UNITED STATES PATENT OFFICE.

CARL SCHNIPPERING, OF CASSEL, GERMANY.

CARTRIDGE-MAGAZINE FOR BREECH-LOADING SMALL-ARMS.

SPECIFICATION forming part of Letters Patent No. 488,456, dated December 20, 1892.

Application filed May 24, 1892. Serial No. 434,226. (No model.)

To all whom it may concern.

Be it known that I, CARL SCHNIPPERING, engineer, of Cassel, in the Kingdom of Prussia and German Empire, have invented a new and useful Improvement in Cartridge-Magazines for Breech-Loading Small-Arms, of which the following is the specification, reference being had therein to the accompanying drawings.

A repeating mechanism for small arms with movable breech constitutes the subject matter of the present invention, such mechanism being characterized by extreme simplicity, exemption from wear and tear, and great efficiency in use.

The accompanying drawings represent the new mechanism in two forms adapted to the German infantry gun.

Figure I is a longitudinal section through the lock of the gun showing one form of the invention. Fig. II is a front and a side of the cartridge lifter or carrier. Fig. III is a side view of a second form of the invention. Fig. IV is a section drawn on the line A—B of Fig. III, and Fig. V is a section drawn on the line C—D of Fig. III.

Fig. I shows, beneath the feeding chamber, which is suitably cut out at the bottom, a lifter or carrier *a*, which carries a guide plate or bar *b*, slipping upward in a diagonal direction toward the butt. This carrier *a*, slides against the walls of the magazine *c* perpendicularly. On plate *b* slides a pulley *d* carried at the end of a lever *e* which latter turns around a pin *e'* and is acted upon by a coiled spring *f* which, encircling the pin *f'* tends to press said pin downward on to the short arm of the lever *e*, thereby causing the pulley *d* to move in an upward direction, and as the pulley slides along the plate or bar *b*, the frame *a* is at the same time moved upward. A tappet *g* standing in the path of the movable breech or bolt has a stem *g'* which rests on the lever *e*. If this stem *g'* be depressed, the frame *a* will be levered by means of the gearing arranged just described, thereby overcoming the pressure exerted by the coiled spring *f*. The action of this mechanism may be described as follows.

Let us suppose the magazine *c* to be full of cartridges, one of which lying on the lifter or carrier *a*, rests in front of the head of the breech cylinder or bolt when the feeding chamber is open; if the breech cylinder or bolt be now pushed forward, it will, as usual, carry the loose cartridges toward the cartridge chamber of the barrel, thereby depressing the tappet *g*. This movement has the effect, as already described, of causing the lifter or carrier *a* to move downward, when a fresh cartridge will drop on to it. When the breech of the gun is again opened in consequence of the retraction of the breech cylinder or bolt, the lifter or carrier *a* is moved upward and will then again place a cartridge in front of the breech cylinder or bolt. In the form represented at Fig. III, the diagonal plate *b* and the tappet *g* are dispensed with, another method of depressing the lifter or carrier being employed. The lever *h* with a pulley *i* lies with one of its ends beneath the pin *k*, which is acted upon by a coiled spring *k'*. The upper extremity of the pin *k* lies near the beaming bar of the handle *l* of the breech cylinder or bolt. The two pulleys *d* and *i* slide within a slot hole *m* in the lifter or carrier *a*, Fig. II, which frame is pressed upward by the spring *f*, acting upon it through the lever *e* and roller *d*. If now the gun is locked by moving the handle *l* in a downward direction the pin *k* and the lifter or carrier *a* will thereby be likewise depressed.

What I claim, is:—

1. A repeating mechanism for breech loading small arms fitted with a cylinder breech or bolt comprising a magazine compartment, a carrier *a*, mounted in said compartment, a spring actuated lever carrying the pulley engaging the carrier and tending to press the carrier upward, and a tappet standing in the path of the movable breech or bolt and engaging the lever for depressing the carrier when the cylinder or bolt is closed, substantially as described.

2. A repeating mechanism for breech loading small arms fitting a cylinder breech or bolt comprising a magazine, a carrier mounted

in said magazine, a guide bar connected to the carrier, a spring actuated lever having a pulley engaging the carrier and guide bar, and a vertically reciprocating tappet standing in the path of the movable cylinder or bolt and bearing upon the lever, substantially as described.

In witness whereof I have hereunto set my hand in presence of two witnesses.

CARL SCHNIPPERING.

Witnesses:
PAUL FISCHER,
PAUL BRINKMANN.