

### **ACTION OF MAGAZINE.**

As the feed-arm moves to the left the feed-arm pawl acts against one of the projections on the outside of the magazine, thus causing the magazine to make a partial revolution, clockwise, sufficient to bring the next cartridge into position.

When the feed-arm has reached its extreme position to the left, the left of the three feed arm studs is freed from the right stop pawl, which is then forced out by the pawls-spring and engages into the next recess on the right in the magazine, thus preventing it from rotating too far.

At the same time the left stop pawl, which has been pressed in and passed over by the clockwise rotation of magazine, is engaged in the next recess on the left and prevents the magazine from rotating in the contrary direction. The magazine is thus locked in position during the loading and firing action.

---

## **FORWARD MOVEMENT.**

### **ACTION OF RETURN SPRING.**

As soon as the gases have expended their force, the return spring unwinds itself, thus causing the pinion to rotate.

The teeth on the pinion engage with the teeth on the rack, causing the piston rod and bolt to be carried forward.

### **ACTION OF PISTON ROD.**

As the piston rod travels forward it carries the bolt fully home. The left side of the striker post, bearing fully against the left side of the cam slot in the bolt, causes the bolt to rotate one-eighth of a turn to the right, and the lugs on the bolt to engage in their locking recesses, thus locking the bolt. The lugs are now in position to take the shock of discharge, the bolt thus securely closing the breach.

The striker post still continues to travel forward until the striker hits the cap of the cartridge in chamber and fires it.

### **ACTION OF BOLT.**

As the bolt travels forward, the front top edge of the bolt strikes against the bottom edge of the cartridge in position in the slot, and pushes it forward into the chamber; the extractors spring over the rim of the cartridge.