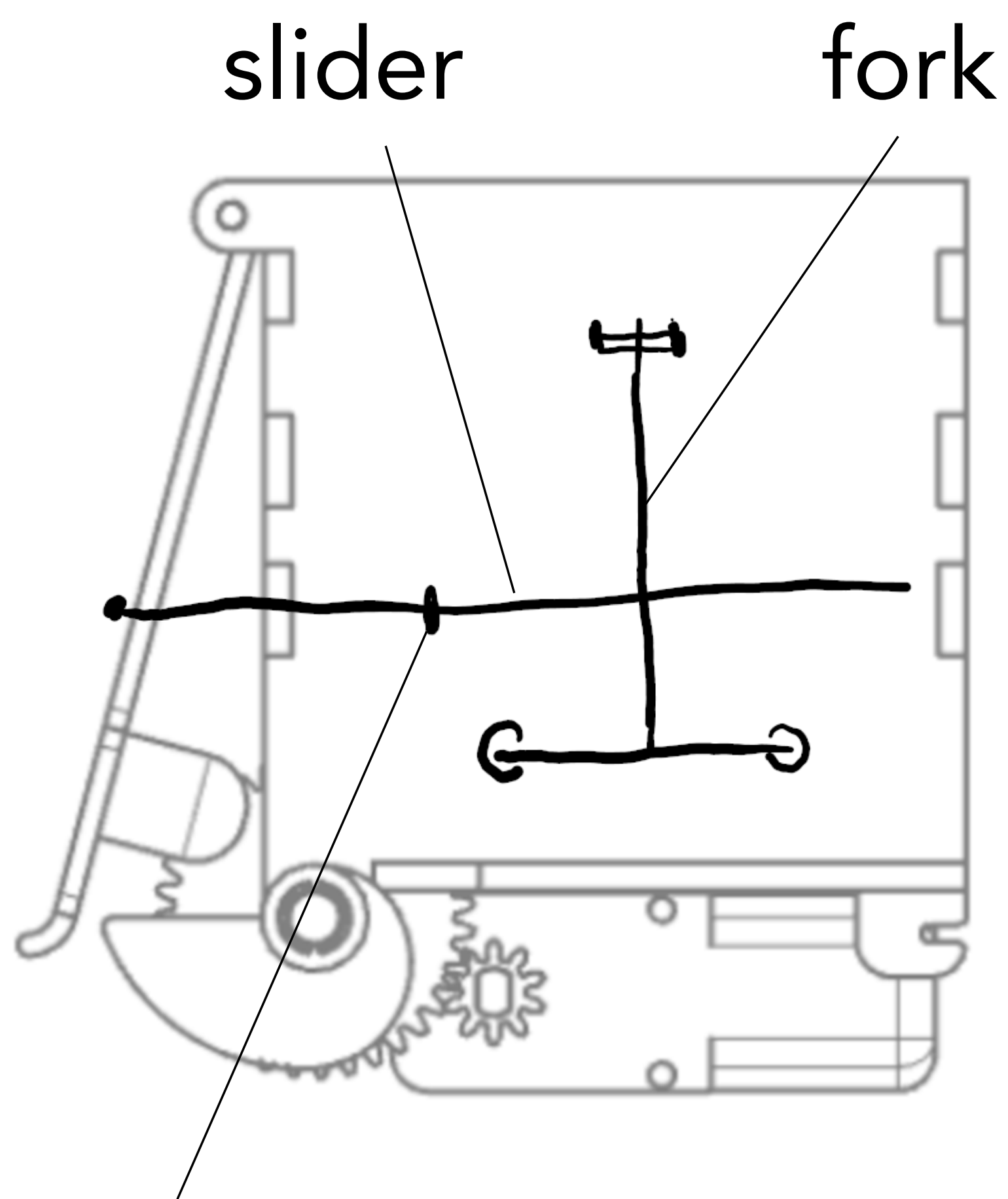
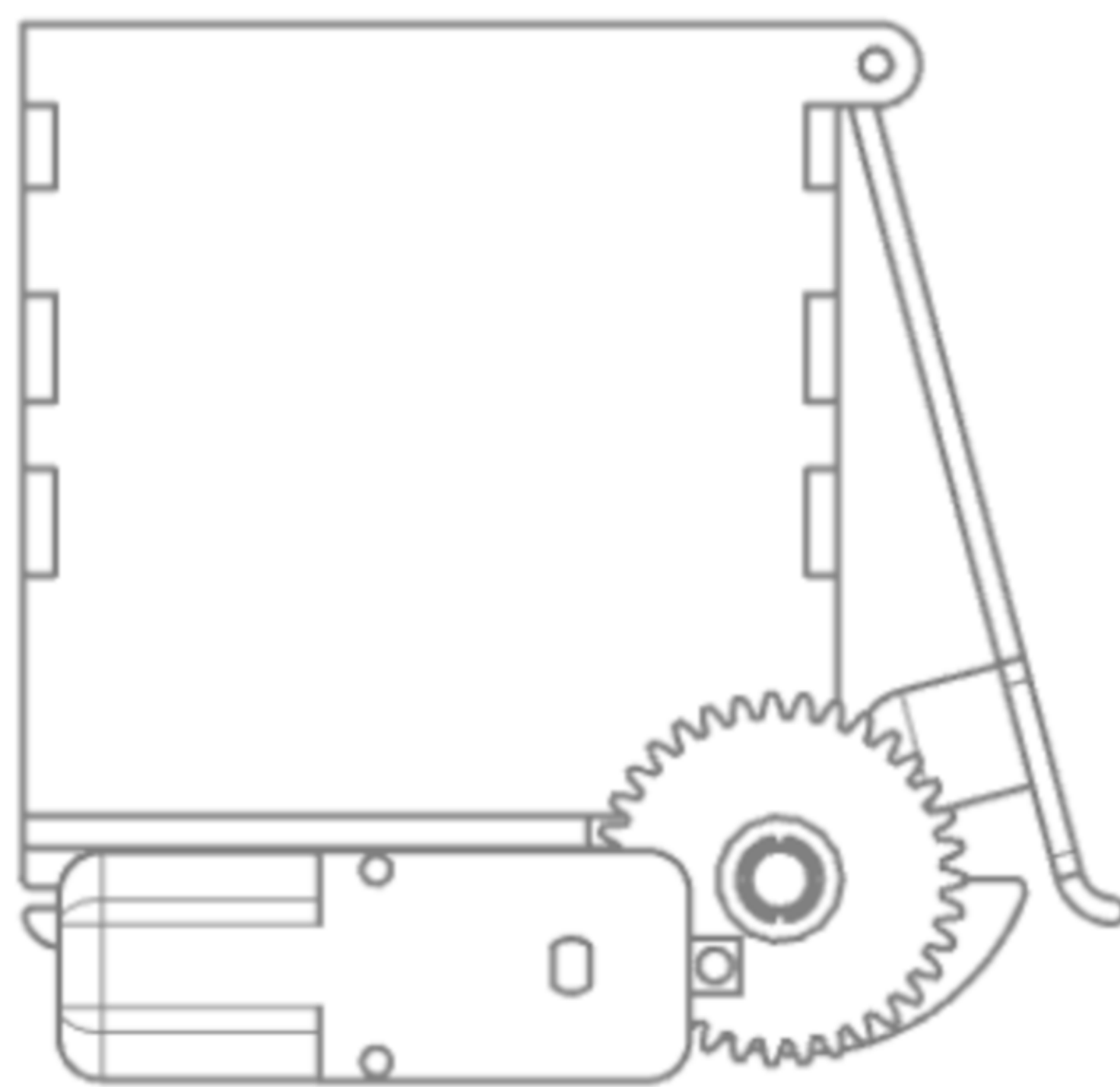
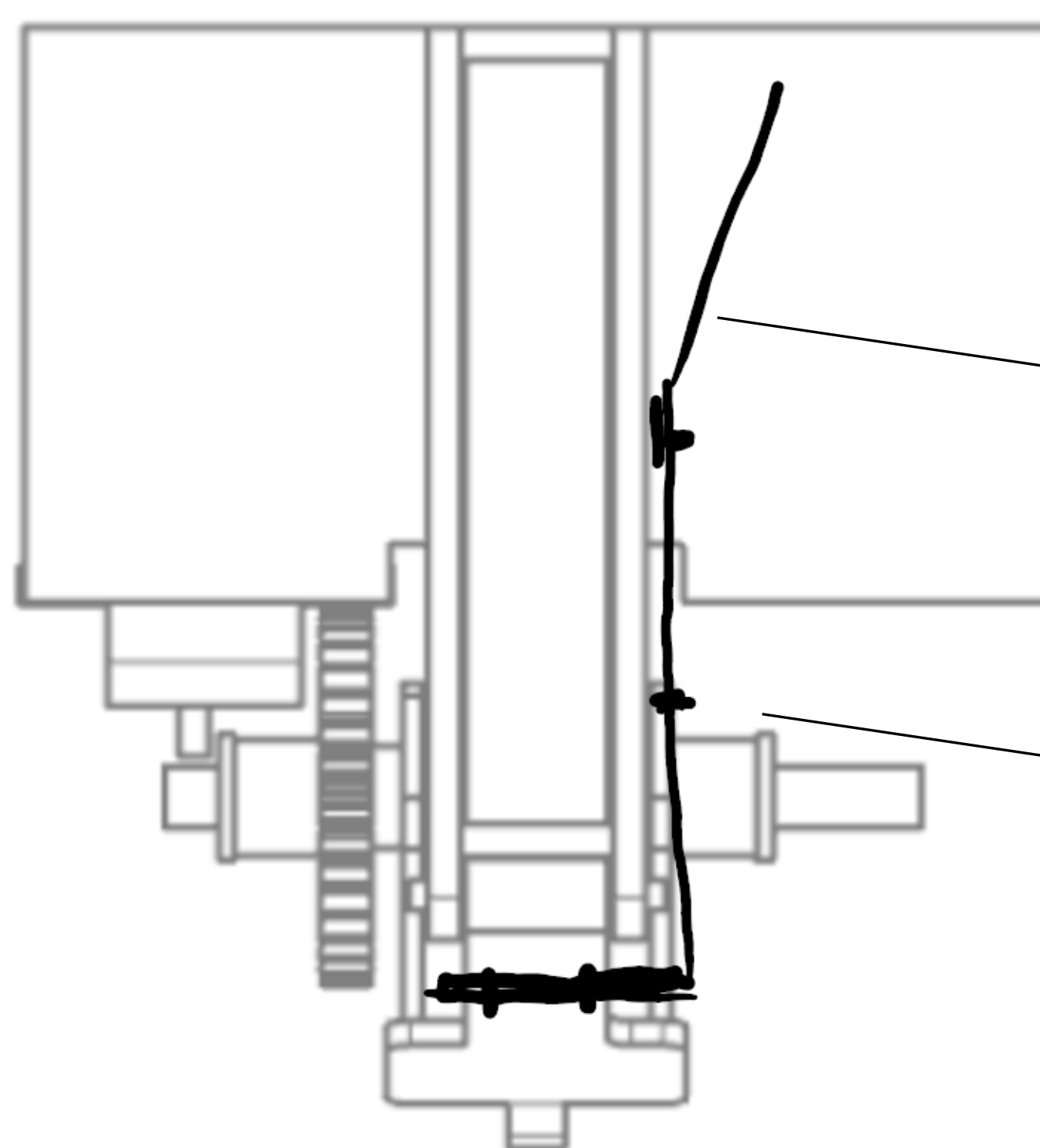




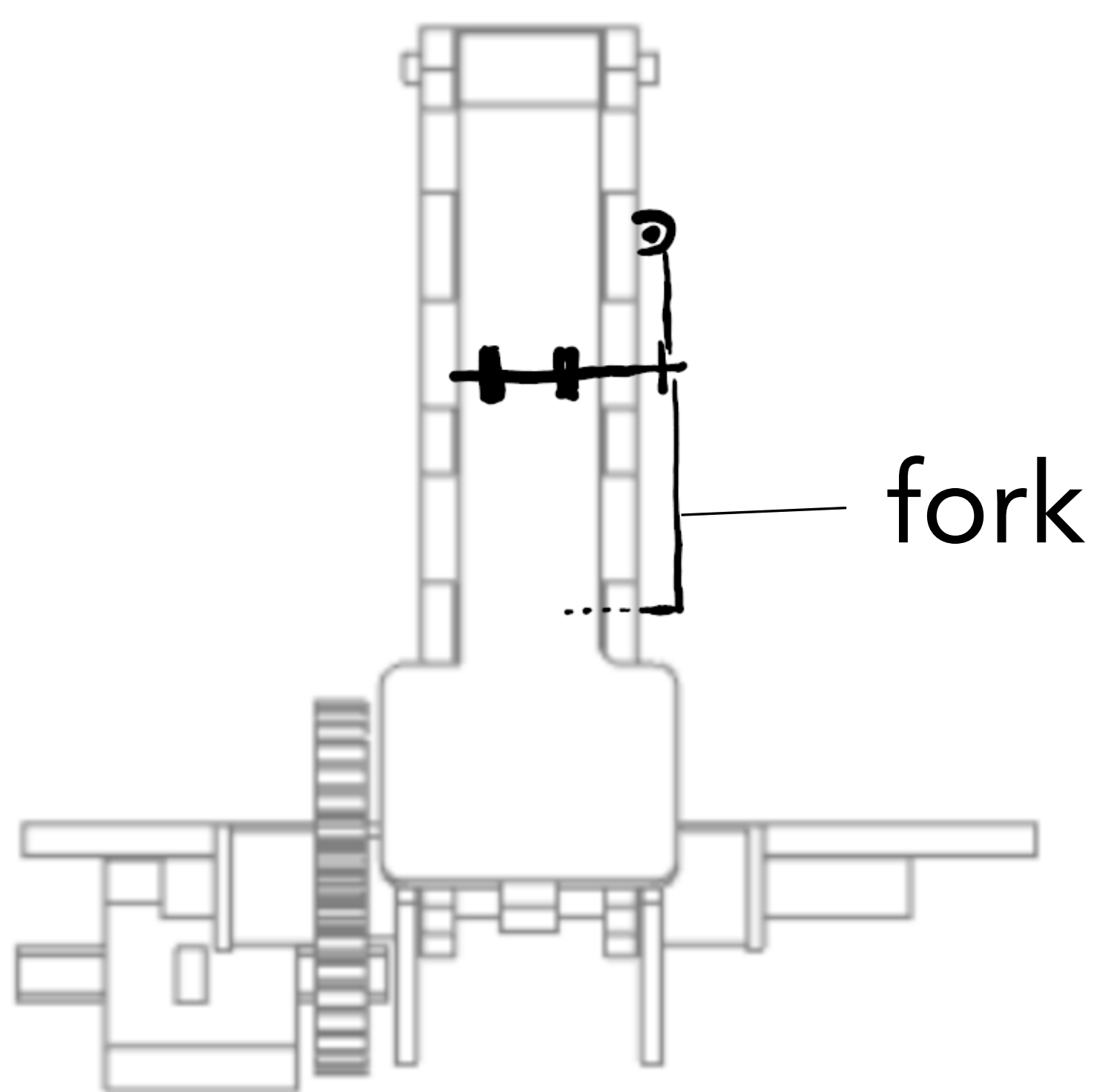
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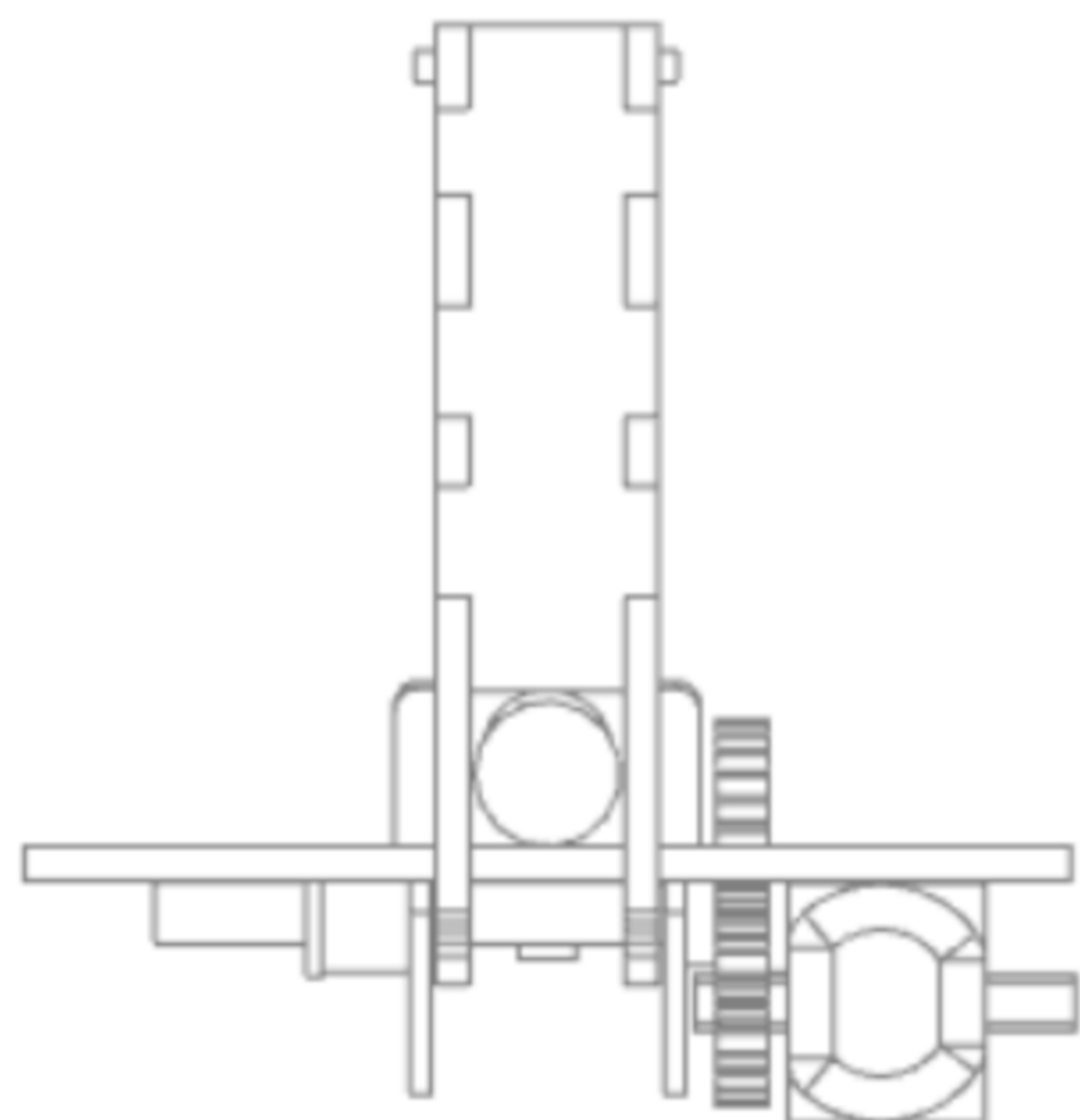
right



top

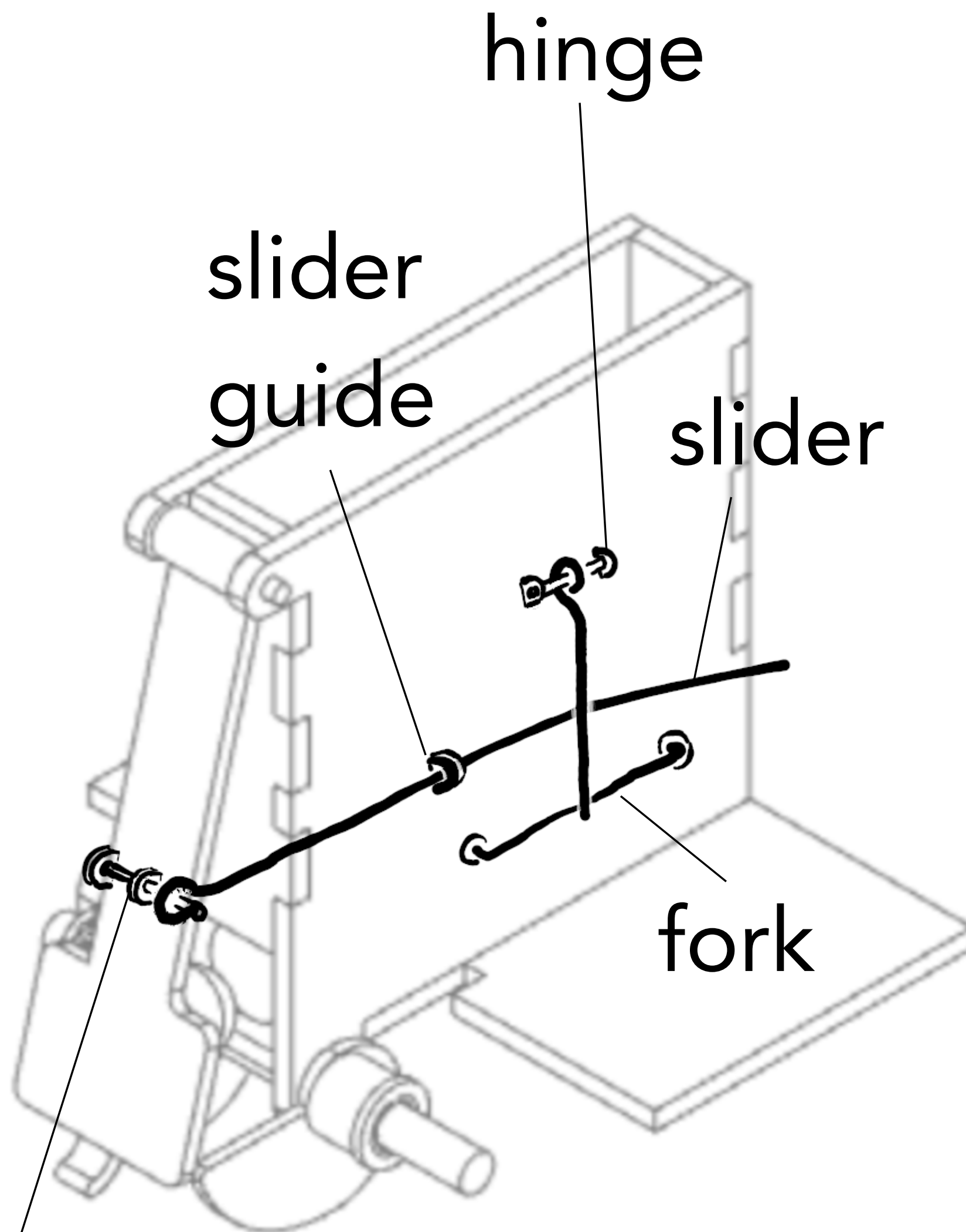


front



back

slider
(top view)



hinge

isometric

fork
(isometric view)



CATCH AND RELEASE

Catch and Release traps each bullet, holding it level and raised above the bottom of the magazine before dropping it down into place for the hammer to shoot it.

A fork is made of wire, consisting of two tines bent inwards and a shaft that extends upwards. The shaft ends in a loop that can be hooked onto a hinge. The tines of the fork are inserted into two holes in the side of the magazine, exactly one bullet's diameter from the bottom of the magazine. The loop of the fork is hooked onto a hinge attached to the side of the magazine, above the holes. The tines of the fork should now be able to swing freely in and out of the holes. When the tines of the fork are inserted into the holes, they prevent a bullet from dropping all the way to the bottom of the magazine. Instead, the bullet rests level on the tines.

The fork is retracted from the hole by means of a slider, a piece of wire bent to a shallow angle at the midpoint. Like the fork, the slider ends in a loop. A rod is attached to the midpoint of the hammer, and the loop of the slider hooked onto it. The slider is inserted into a guide -- a small loop of wire, a piece of wood with a hole drilled into it or some other contrivance -- that maintains the slider horizontal. As the hammer moves in and out the slider will slide backwards and forwards through the guide. The slider should sit between the wall of the magazine and the fork. When the slider is pulled backwards by the hammer, the bent part of the slider will force the fork outwards, thus retracting the tines. At this point a bullet will drop to the bottom of the magazine. The bend in the slider will determine at what point in the firing cycle the bullet falls. It should fall just as the hammer head exits the magazine, leaving room for the full length of the bullet.