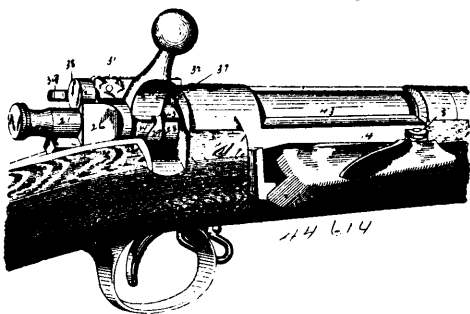


with chambers, bars supporting plungers for said chambers within said drum, and stationary heads for the drum provided with grooves with which the ends of said plunger bars engage. 17th. In a machine for making matches, a fulminate depositor consisting of a plurality of chambers provided with plungers, a fulminate conveyor and means for retracting the plungers to raise fulminate from the conveyor, and means for projecting the plungers to expel the fulminate. 18th. In a machine for making matches, a fulminate depositor consisting of a drum provided with a plurality of grooves, bars having chambers therein and supported in said grooves, and plungers for expelling fulminate.

No. 44,614. Magazine Firearms.

(Arme à feu à répétition.)

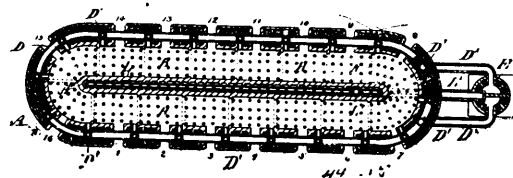


Ole Herman Johannes Krag and Erik Jorgensen Armourer, Kongsberg, Kingdom of Norway, 3rd November, 1893; 6 years.

Claim.—1st. In a breech-loading gun, the combination, with the receiver, of a horizontal magazine arranged with its inlet on one side of and below said receiver and with its outlet on the opposite side and in communication with the receiver, substantially as described. 2nd. In a breech-loading gun, the combination, with the receiver, of a horizontal magazine arranged with its inlet on one side of and below said receiver and with its outlet on the opposite side and in communication with the receiver and a spring actuated feeding device at the inlet of the magazine adapted to feed the cartridges towards or to the outlet thereof, substantially as described. 3rd. In a breech-loading magazine gun, the combination of 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, with a spring actuated feed lever arranged in the magazine and engaged by said lug and moved outwardly thereby against the stress of its spring when the gate is opened, for the purposes set forth. 4th. 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. 5th. In a breech-loading magazine gun, the barrel, receiver and a magazine, open on opposite sides of said receiver, said parts being framed integral of 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. 6th. In a breech-loading magazine gun, the combination, with the receiver, provided at its forward end with an annular locking recess at its rear end with a rearwardly inclined face 37, interiorly with two longitudinal bearing faces *c* and *d*, of the breech bolt provided at its forward end with two radial lugs 35 and 36, and at its rear end with a rearwardly inclined shoulder 34, a hand lever on said rear end of the bolt normally in contact with the inclined face 37, of the receiver, the firing pin provided at its rear end with a longitudinal rib 22, having full cock shoulder 23, normally in contact with the rearwardly inclined shoulder on the breech bolt and an extractor connected with the breech bolt, whereby the said breech bolt, firing pin and extractor are caused to simultaneously move rearwardly when a partial rotation is imparted to the bolt, substantially as and for the purposes set forth. 7th. In a breech-loading magazine gun, the combination with the breech bolt enlarged at its rear end, and provided in said enlarged portion with a semi cylindrical longitudinal recess, and a locking sleeve fitted in the rear end of the bolt, said sleeve being provided with a radial lug 33, adapted to engage the shoulder formed by the enlarged end of the breech bolt, and having its rear end also enlarged and provided with a longitudinal cylindrical bearing, of a locking pin seated and adapted to revolve in said bearing and extending into the recess in the breech bolt, the end of said pin that projects into said recess being semi-cylindrical, substantially as and for the purpose set forth. 8th. In a breech-loading magazine gun, the combination with the breech bolt enlarged at its rear end, and provided in said enlarged portion with a semi-cylindrical longitudinal recess, a locking sleeve fitted in the rear end of the breech bolt, said sleeve being provided with a radial lug 33, adapted to engage

the shoulder formed by the enlarged end of the breech bolt, and having its rear end also enlarged and provided with a longitudinal cylindrical bearing, the firing pin provided with the pull or knob 21, and the actuating pin of said pin having bearing on the end of the locking sleeve and on the collar on the pin respectively, of the locking pin 40, provided with a semi-cylindrical end 41, and with a head 38, having formed therein a concave recess 38^a, said pin having rotary motion in the bearing of the locking sleeve, and said semi-cylindrical end projecting into the corresponding recess in the breech bolt, substantially as and for the purpose set forth. 9th. 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 29 having a forwardly projecting arm 31, under cut or recess at 45, and an extractor carrier 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, 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 set forth. 10th. In a breech-loading magazine gun, the combination with the receiver having guide bearings *d* and *c*, therein extending nearly the full length thereof, and the lateral slot *r*¹ contracted at its rear end, of the breech bolt having lugs 35 and 36 at its forward end, said lugs having bearing on and being guided by said bearings *d*, *c*, respectively when the bolt is positioned for rectilinear motion in said receiver, substantially as and for the purpose set forth. 11th. 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, concave 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 it elasticity, the body of said plate being loosely fitted in the dove-tailed groove of the carrier and extractor hook at end of the attenuated portion of the extractor, and a locking device to lock the extractor and carrier against endwise motion independently of said breech bolt when the latter is moved back into the receiver, substantially as and for the purpose set forth. 12th. In a breech-loading magazine gun, the combination with the receiver having guide 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 annular arm or lever 62, the vertical 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 withdrawing its vertical arm from the path of the lug, for the purpose set forth. 13th. The described cartridge case made of two pieces 64 and 63, fashioned to perform the function of casing and drawer respectively, the front wall 66 of the drawer being curved upwardly, for the purposes set forth.

FO, 44,615. Brick Kiln. (Four à brique.)



Max Alexander Theodor Boehncke, Centinela, California, U.S.A., 3rd November, 1893; 6 years.

Claim.—1st. In a brick kiln, the combination with a continuous chamber divided into a series of sub-chambers, of horizontal downdraft flues having communication with the chimney, vertical downdraft flues communicating with the respective sub-chamber and with the exterior of the kiln, the exterior openings being normally closed, said vertical flues intersecting the horizontal flues, and dampers adapted to interrupt communication between the individual vertical flues, substantially as set forth. 2nd. In a brick kiln, the combination with a burning chamber provided downdraft flues, vertical updraft flues, and with a chimney, of main horizontal downdraft flues and a main horizontal updraft flue, said horizontal flues each having independent communication with the chimney, substantially as and for the purpose set forth. 3rd. In a brick kiln, the combination with a chamber provided with combined feed chutes and updraft flues arranged in rows and provided at their exterior ends with a projecting annular flange adapted to be normally inclosed by sealing caps, and a horizontal updraft flue communicating with the chimney and provided with flanged openings in alignment with the rows of feed chutes and normally closed by caps, of a portable conductor provided at its lower side with pipes coinciding with and adapted to receive the flanges of the feed chutes and the flange of the respective opening in the updraft flue, substantially as set forth. 4th. In a brick kiln, the combination with a chamber provided with combined feed chutes, and updraft flues arranged in rows and provided at their exterior openings with an annular flange