

and movable portion, adjustable holders secured to the movable portion, and a lever operated by suitable mechanism and moving the shells laterally off of the fixed portion onto the movable portion of the table, and guards 150 provided with friction rollers, substantially as and for the purpose set forth. 6th. In a cartridge-loader, the combination of a table, a funnel for delivering the cartridge vertically onto the table, and device for delivering the shells into the funnel, and a horizontally swinging arm 39 moving under said funnel and having the tail 41, substantially as and for the purpose set forth. 7th. In a cartridge-loader, the combination of a table, and mechanism for delivering the shells onto the table, consisting of an adjustable funnel normally distant from the table less than the length of the shell, and mechanism for automatically delivering the shells into the funnel, one at a time, and lifting the funnel, substantially as and for the purpose set forth. 8th. In a cartridge-loader, the combination of a table and mechanism for delivering the shells onto the table, consisting of a funnel, an inclined holder for receiving a number of the shells, and two reciprocating gates extending into the passage and operated alternately up and down, substantially as and for the purpose set forth. 9th. In a cartridge-loader, the combination of the table, and mechanism for moving the shells onto the table consisting of a funnel, a holder, vertically-reciprocating gates projecting into the holder bar, to which the gates are secured, and means for alternately moving the bar to raise and lower the gates automatically, substantially as and for the purpose set forth. 10th. In a cartridge-loader, the combination of the table, a funnel located over the table, and means for delivering the shells into the funnel, consisting of a holder 56, vertically movable gates 60, 61, bar 63 to which the gates are secured, link 70 connected to the bar at one end, pivoted lever 67 to which the link is connected at the other end, and a movable disk 3 for operating said lever, substantially as and for the purpose set forth. 11th. In a cartridge-loader, the combination of the table, a funnel located over the table, and mechanism for delivering the shells one at a time into the funnel, consisting of a holder having an inclined end 59, and slide 59-1-2 for retarding one end, and the opposite inclined depression 58 for dropping the other, substantially as and for the purpose set forth. 12th. In a cartridge-loader, the combination of the table and funnel for delivering the shells onto the table, and an oscillating lever having an end for embracing the shell, and a rearwardly extending wing 41 for closing the funnel orifice, substantially as and for the purpose set forth. 13th. In a cartridge-loader, the combination of a table, a funnel for delivering the shells onto the table, normally distant from the table less than the length of the shell, whereby the shell is not wholly released, and a reciprocating disk 3 to which the funnel is connected for lifting it a short distance after each shell has been deposited, substantially as and for the purpose set forth. 14th. In a cartridge-loader, the combination of a table for supporting the shells, and a powder or shot charging device, the latter consisting essentially of a receiver or canister, a cylinder into which the canister discharges, a hollow movable plunger having perforations to receive and discharge the powder or shot, and a funnel for transferring the powder or shot from the plunger to the shells, said funnel being mounted on a vertically movable rod, whereby it enters and is withdrawn from the shell, substantially as and for the purpose set forth. 15th. In a cartridge-loader, the combination of a table, and the powder or shot-charging device consisting essentially of a cylinder into which the powder or shot is deposited, a hollow vertically-movable plunger having perforations to receive and discharge the powder or shot, connection between the plunger, and disk 3 for raising and lowering said plunger, and a funnel for transferring the powder or shot from the plunger to the shell, substantially as and for the purpose set forth. 16th. In a cartridge-loader, the combination of a table for supporting the shells, and a powder or shot-charging device consisting essentially of a cylinder into which the powder or shot is deposited, a hollow plunger located within the cylinder and having perforations to receive and discharge the powder or shot, and a funnel for transferring the powder or shot from the plunger into the shell, said plunger being connected to and operated by a movable disk 3, substantially as and for the purpose set forth. 17th. In a cartridge-loader, the combination of a table for supporting the shells, and a powder or shot-mechanism consisting essentially of a cylinder, a hollow plunger located within the cylinder and having perforations to receive and discharge the powder or shot, a funnel for transferring the powder or shot from the plunger to the shells, and an adjustable bottom in the plunger consisting of a plug, and a screw-threaded rod entering the plug from the bottom, and having a projecting end for turning and for raising and lowering the plug, substantially as and for the purpose set forth. 18th. In a cartridge-loader, the combination of a table for receiving the shells, and a shot or powder-charging mechanism consisting essentially of a cylinder, a hollow plunger located within the cylinder, and having receiving and discharging openings at different elevations, a tube secured to the cylinder and through which the plunger passes, and a funnel for transferring the powder or shot from the plunger to the shells, said plunger passing through an arm 93 on the disk 3, substantially as set forth. 19th. In a cartridge-loader, the combination of a table for receiving the shells, and a powder or shot-charging mechanism consisting essentially of a cylinder, a hollow plunger located within the cylinder and having receiving and discharging openings, a movable bottom in said plunger, a longitudinal rod screwing into said bottom for regulating it, and a pin in said bottom fitting in a graduated slot of the plunger for preventing the bottom from turning and for indicating its location, substantially as and for the purpose set forth. 20th. In a cartridge-loader, the combination of a table for supporting the shells, and a powder or shot-charging mechanism consisting essentially of a cylinder, a hollow plunger located within the cylinder, and having openings for receiving and discharging the powder or shot, a funnel for transferring the powder or shot from the plunger to the shells, and means for raising and lowering the plunger consisting of a vibrating disk 3, and arms or brackets 84 mounted thereon, substantially as and for the purpose set forth. 21st. In a cartridge-loader, the combination of a table for supporting the shells, and a powder or shot-charging mechanism having a funnel for transferring the powder or shot to the shells, said funnel being normally distant from the table less than the length of the shell, and connected to a vertically-vibrating disk 3, whereby it enters the shells while the powder or shot

is being transferred, and then rises out of the shells to permit the latter to be moved away, substantially as and for the purpose set forth. 22nd. In a cartridge-loader, the combination of a table for holding the shells, and a powder or shot-charging mechanism consisting essentially of a supply-cylinder, a vertically movable charging plunger moving in said cylinder, and a funnel secured to and beneath the plunger, so as to be raised and lowered thereby, substantially as and for the purpose set forth. 23rd. In a cartridge-loader, the combination of a supporting-table, a wadding device consisting of a vertically reciprocating plunger, a receiving tube, a slide for presenting the wads, a pivoted lever secured to the slide provided with a vertical cam slot, and an arm having an operating pin and connected to the plunger, whereby the vertical movement of the plunger causes the delivery of a wad, substantially as and for the purpose set forth. 24th. In a cartridge-loader, the combination of a supporting table and a wadding-device consisting essentially of a plunger, a vertically movable disk 3 carrying the plunger, a delivery tube, a table beneath the delivery tube, a slide located on the table and moving beneath the tube, and working connection between the disk and the slide, substantially as and for the purpose set forth. 25th. In a cartridge-loader, the combination of a supporting table and a wadding device consisting essentially of a plunger, means for moving the wads beneath the plunger, a guard for protecting the mouths of the shells consisting of an adjustable arm, having a cylindrical opening slotted to receive the mouth of the shell, and means for automatically moving the guard consisting of a rod-lever and cam, substantially as and for the purpose set forth. 26th. In a cartridge-loader, the combination of the intermittently-moving supporting table and crimping mechanism consisting of reciprocating rods 120 and 124, and dies 121 and 125 on the respective rods by which the shell is successively treated, the former contracting the shell and the latter having a projection 126 for turning in the edge, substantially as and for the purpose set forth. 27th. In a cartridge-loader, the combination of the intermittently-moving supporting table, and a crimping device consisting of the rods 120 and 124, vertically reciprocating disk 3 with which the rods have screw-threaded connection, and dies on the lower ends of the respective rods by which the shell is successively treated, the die on the former having a projection 122, and being formed to contract the shell around said projection and the latter having a projection 126 of larger diameter than the former projection, whereby it engages the contracted portion and turns it in substantially as and for the purpose set forth. 28th. In a cartridge-loader, the combination of the supporting table and a printing device consisting essentially of a movable rod, a printing roller, an adjustable inking-pad, and mechanism for moving the printing roller automatically against the pad-end over the face of the printing-die, substantially as and for the purpose set forth. 29th. In a cartridge-loader, the combination of the supporting table, and a printing device consisting of a movable adjustable rod, a pivoted lever, a die secured to the lower end of the rod, a roller secured to the lower end of the lever for inking the face of the die, and mechanism for operating the roller consisting of a stationary slotted arm, having an inclined groove in which fits a pin on said lever, substantially as and for the purpose set forth. 30th. In a cartridge-loader, the combination of the supporting table, and a printing mechanism consisting of a movable rod, a printing die on the end of the rod, and an inking mechanism consisting of a pivoted lever, a slotted stationary arm with which the lever is connected by a pin, a roller secured to the lever, and a pad 140, substantially as and for the purpose set forth. 31st. In a cartridge-loader, the combination of a rotating supporting table, and mechanism for moving the shells onto and from the table, consisting of a pivoted lever 37 having ends 39 and 50 moving alternately over said table, substantially as and for the purpose set forth. 32nd. In a cartridge-loader, the combination of the supporting table 2, a movable disk 3 over the table, and means for moving the shells onto and from the table, consisting of a pivoted lever 37 having shell engaging ends 39 and 50, a slotted lever 42 pivoted to a fixed part of the machine and engaging the lever 37 with its free end, and an arm 49 carried by the disk 3 and having a pin 48 engaging the slot in lever 42, substantially as and for the purpose set forth. 33rd. In a cartridge-loader, the combination of a table having a stationary perforated part 2, and a movable centre 19, a lever 37 for moving the shell off the moving part, a tube 146 secured to the stationary part beneath the perforation, and a bracket 147 at the perforation, and in the path of the lever for stopping the shells in a vertical position, and allowing them to pass into the tube, substantially as and for the purpose set forth. 34th. In a cartridge-loader, the combination, with a table having a stationary part, a turning centre, and suitable loading devices disposed at intervals above said table, of laterally opening shell-holders 30 secured to the turning-centre, and adjustable holders 150 opposite to said holders 30 and secured to the stationary part beneath the respective loading devices, substantially as and for the purpose set forth. 35th. In a cartridge-loader, the combination of a shell supporting table having a stationary outer part, and a turning centre, shell-holders 30 secured to the turning centre, clearing finger 160 secured to the stationary part and extending over the movable part and entering said holders, and a perforation 161 adjacent to the finger for outlet of the material collected, substantially as and for the purpose set forth. 36th. In a cartridge-loader, the combination of a shell supporting table having a stationary outer part, and a turning-centre mechanism for moving the centre intermittently, and a stop mechanism consisting of a rod fitting in perforations in the two parts of the table, a pivoted lever to which the rod is secured and means for operating the lever, substantially as and for the purpose set forth. 37th. In a cartridge-loader, the combination of a shell supporting table having a stationary pivoted part, and a turning-centre mechanism for giving the table an intermittent movement, and mechanism for stopping the table consisting of a rod 303 fitting in perforations in the table, pivoted lever to which the rod is secured, and which has a depression 307, spring-rod 309 and a movable roller 306, all substantially as and for the purpose set forth. 38th. In combination with a suitable table, and a reciprocating part above the same in a cartridge-holder, a crimping device consisting of two dies carried by the vibrating part, and to the action of which the shell is successively subjected, the former having a contracted bore with a central core, and the latter having a straight bore with a central core, the core of the latter being of greater diameter than the former, whereby the portion of a