

D. L. LARSEN.
RIFLE CLEANING TABLE.
APPLICATION FILED DEC. 27, 1911.

1,062,922.

Patented May 27, 1913.

3 SHEETS—SHEET 1.

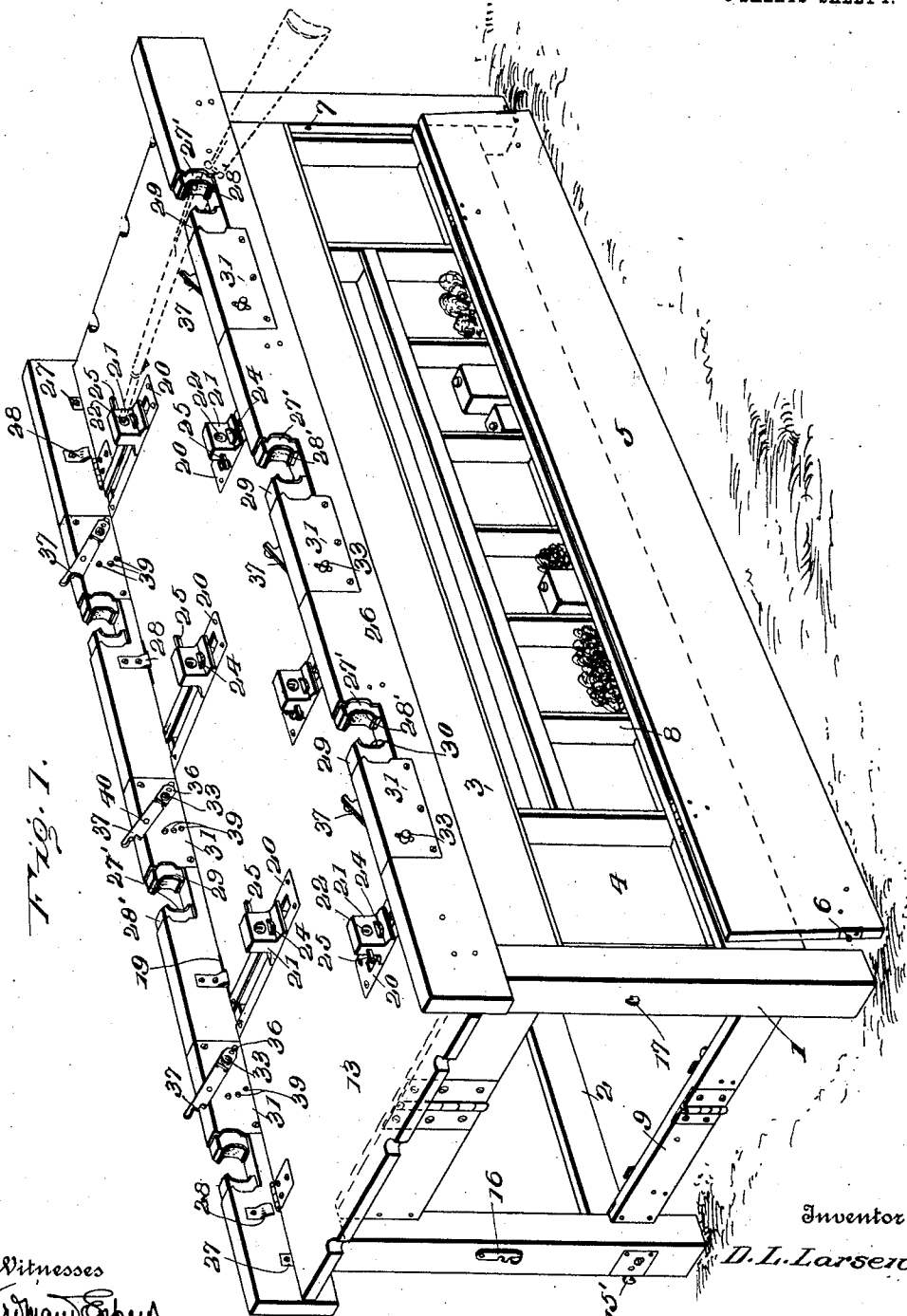


Fig. 1.

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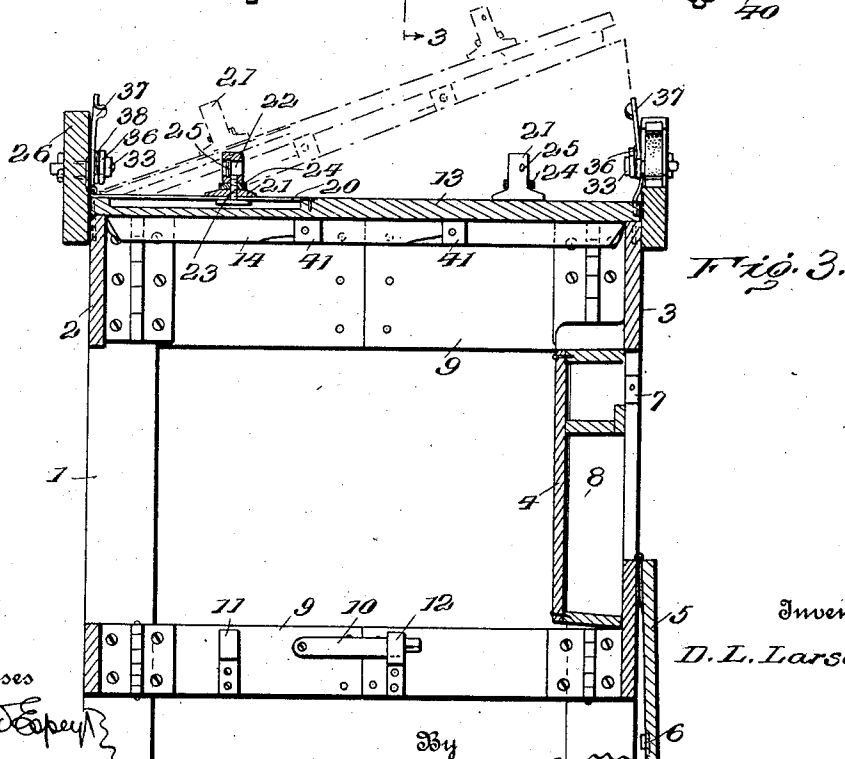
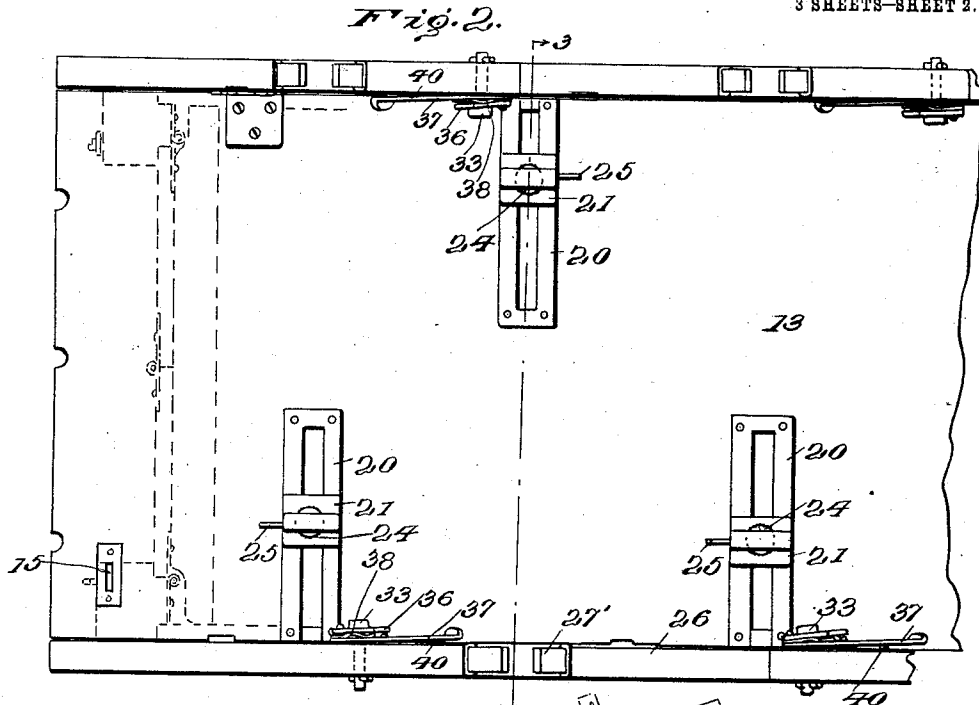
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3 SHEETS—SHEET 2.



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3 SHEETS—SHEET 3.

Fig. 4.

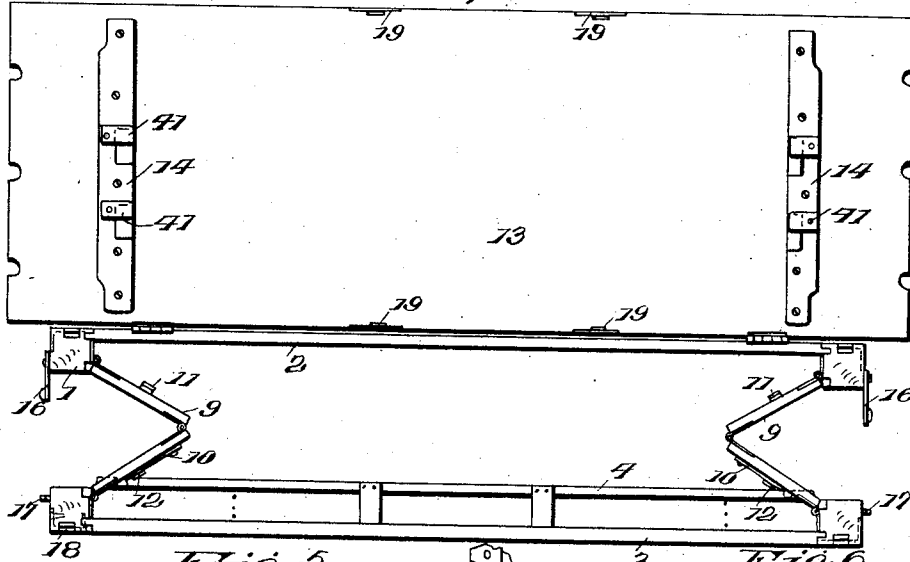


Fig. 5.

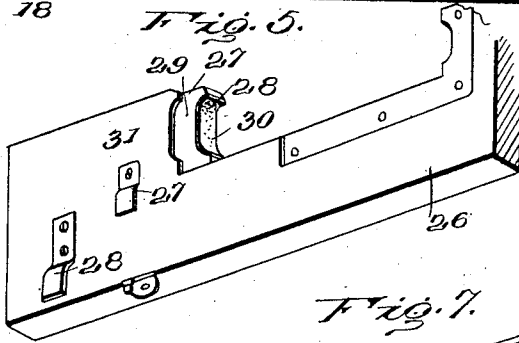


Fig. 6.

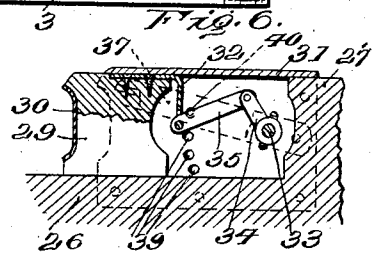
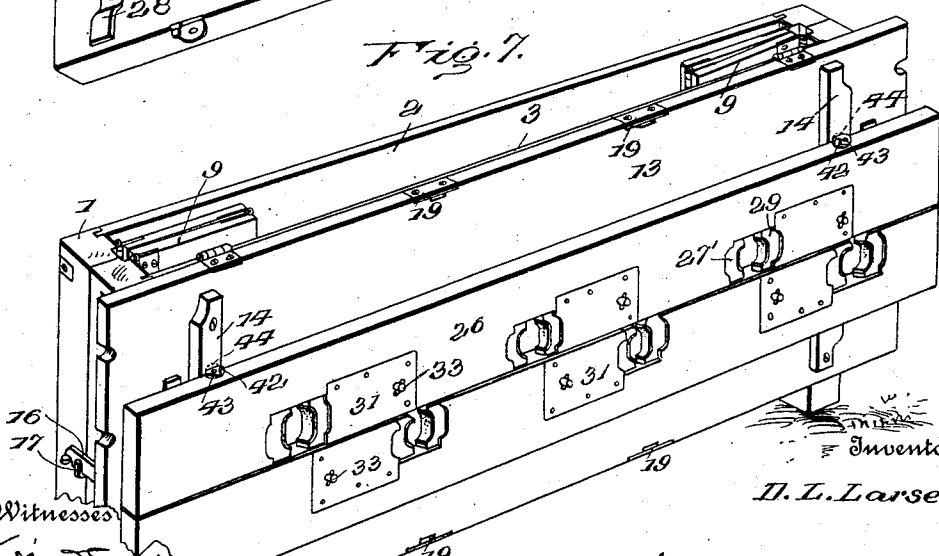


Fig. 7.



Witnessed

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UNITED STATES PATENT OFFICE.

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RIFLE-CLEANING TABLE.

1,062,922.

Specification of Letters Patent.

Patented May 27, 1913.

Application filed December 27, 1911. Serial No. 668,193.

To all whom it may concern:

Be it known that I, DANIEL L. LARSEN, citizen of the United States, residing at Duluth, in the county of St. Louis and State of Minnesota, have invented certain new and useful Improvements in Rifle-Cleaning Tables, of which the following is a specification.

This invention has relation to tables especially adapted to be used for holding rifles during the process of cleaning the same, and has for its object to provide a simple and an effective structure which may be permanently fixed or positioned, or which may be made in collapsible form so that it may be transported readily from point to point.

Another object of the invention is to provide a table with detachable rails having stock clamping devices, and to provide upon the top of the table muzzle receiving blocks so that the rifles may be cleaned by inserting the swabs and rods into the barrels from the breeches, thus avoiding the objectionable method sometimes practised of cleaning the rifle by inserting the cleaning implement into the barrel through the muzzle.

A still further object of the invention is generally to improve this class of devices so as to increase their utility, durability and efficiency.

Further objects and advantages will appear in the following description, it being understood that various changes in form, proportions and minor details of construction may be resorted to within the scope of the appended claims.

For a full understanding of the invention reference is to be had to the following description and accompanying drawings in which:—

Figure 1 is a perspective view of the table showing the parts extended; Fig. 2 is a top plan view of a portion of the same; Fig. 3 is a transverse sectional view of the same; Fig. 4 is a top plan view of the table showing the parts partially collapsed; Fig. 5 is a perspective view of a portion of one of the rifle supporting rails used upon the table; Fig. 6 is a sectional view of a clamping member used upon the rails; Fig. 7 is a perspective view of the table showing the parts collapsed.

Corresponding and like parts are referred to in the following description and indicated in all the views of the accompanying drawings by the same reference characters.

The table consists of four corner legs 1, two of which are connected together at one side of the table by rails 2. Rails 3 are located at the opposite side of the table and connect the other legs 1 together. A casing 4 is supported between the rails 3—3 and is adapted to be closed by a hinged panel 5 which is mounted upon the lowermost rail 3. This panel is provided at its ends with suitable bolts 6 which are adapted to be projected into keepers, indicated at 7, whereby the panel 5 is held in a closed position. The interior of the casing 4 is divided by partitions 8 into suitable compartments for the reception of rags, oils, rods or other accessories used during the process of cleaning rifles.

Rail sections 9 are hingedly connected with the legs 1 and are arranged in pairs located one at the upper portion of each pair of legs 1 and the other at the lower portion of each of the said pair of legs. The parts of the pairs of rails 9 are hingedly connected together at their inner ends and are arranged to swing inwardly between the sides of the table when the table is folded or collapsed. Upon one member of each of the lowermost pair of rail sections 9 is pivotally located a bar 10 which may be swung from a keeper 11 mounted upon the same rail section into a keeper 12 mounted upon the mating rail section. When positioned as last stated the bars 10 will prevent the sections 9 from being swung inwardly, but when the bars 10 are swung back so that they rest at their free ends in the keepers 11 the inner end portions of the rail sections 9 may be readily swung inward between the sides of the table.

A top 13 is hinged at one edge to the uppermost rail 2 and is provided upon its underside with cleats 14 which are adapted to be received between the uppermost rails 2 and 3 when the top 13 is in position over the upper ends of the legs 1.

Catches 15' are mounted upon the legs 1 which support the rails 2 and are adapted to enter keepers 15 provided upon the upper side of the top 13 when the said top is folded against the sides of the legs 1 which support the rails 2. Hooks 16 are mounted upon two of the end legs 1 and are adapted to engage keepers 17 mounted upon the other end legs, whereby the legs at the ends of the table are held in close proximity to each other.

The parts above described constitute the general frame of the table and it will be understood that the members of the pairs of rail sections may be swung inwardly where-
 5 by the legs 1 at the opposite sides of the table are brought together and are secured by the hooks 16 and keepers 17. Also the table top 13 may be swung from a position over the upper ends of the legs 1 down along the
 10 outer sides of the legs 1 which support the rails 2, and secured there by the catches 15' and the keepers 15. Thus the table is collapsed and may be readily transported from point to point or stored, as desired.

The legs 1 are provided at their upper ends and at their outer sides with keepers 18 and the top 13 is provided along its length and at both of its edges with a series of keepers 19. The top 13 is provided at its upper
 20 side with slotted plates 20 which are disposed transversely with relation to the said top and which extend inwardly from the edges thereof. Blocks 21 are slidably mounted upon the plates 20 and are pro-
 25 vided with openings 22 which are adapted to receive the muzzles of the rifles. A screw 23 passes through the lower portion of each block 21 and each screw passes through the slot of one of the plates 20, the head of the screw being located under said plate. A
 30 nut 24 is threaded upon the upper end of the screw 23 and may be screwed down against the upper surface of the lower portion of the block 21, whereby the said block is held in an adjusted position along the plate 20.
 35 A slide 25 is located in each block and has a projecting end, and the inner end of the said slide may be moved across the opening 22 in the block 21 for the purpose of engag-
 40 ing and retaining a rag or other material mounted upon a rod and which is used for the purpose of cleaning the rifle. By making such provision the rag or other material may be removed from the cleaning rod after
 45 it has been forced through the barrel and thus preventing the rag from being drawn back through the barrel from the muzzle.

Rails 26 are detachably applied to the edges of the table top 13 and have upon their
 50 inner sides tongues 27 which engage the cleats 18 and tongues 28 which engage the cleats 19. As these rails are both alike a description of one will suffice. Each rail 26 is provided at its upper edge with a series of
 55 fixed jaws 27' each having a soft lining 28' at its work engaging end. Opposite each jaw 27' is located a slidable jaw 29 having at its work engaging end a soft lining 30. The jaws 29 are mounted in casings 31 and
 60 each jaw 29 is provided at its inner end with a flexible arm 32. A shaft 33 is journaled in each casing 31 and is provided at a point within the casing with an arm 34. A link 35 connects the arm 34 with the free
 65 end portion of the flexible arm 32. Each

shaft 33 carries at one end an arm 36 to one end of which is pivoted an arm 37. The arm 37 is provided with an opening which loosely receives the intermediate portion of the shaft 33, and a spring 38 is interposed
 70 between the arms 36 and 37 and is adapted to hold the free end portion of the arm 37 against the side of the casing 31. The casing 31 is provided with a series of apertures 39 any one of which is adapted to receive a
 75 lug 40 carried by the arm 37. Therefore it will be seen that by swinging the arm 37 the arm 36 together with the shaft 33 will be rotated, which through the arm 34, link 35 and flexible arm 32 will move the jaw 29 in the casing 31. The fixed jaw 27' and the
 80 movable jaw 29 constitute a vise or clamp for holding the stock of a rifle and this vise or clamp is located approximately at the end of the slot in one of the plates 20 and the block 21 mounted on the said plate is adapted to receive in its opening 22 the muzzle of the rifle.

The cleats 14 are provided upon their undersides with keepers 41 which are adapted
 90 to receive the terminal members of the sets of tongues 28 when the rails 26 are removed from the edges of the top 13, and thus the said rails are supported against the sides of the cleats 14 when the table is being trans-
 95 ported or is in storage. One of the rails 26 is provided at its edge with disks 42 having flattened edges 43. These disks are pivotally mounted and are adapted to be turned upon their pivots so that the flattened edges 43 may be positioned in the same plane as the side surface of the rail 26 to which the disks are attached, or the said disks may be turned so that their rounded edges will be projected beyond the plane of the side of
 105 the rail 26 to which the disks are attached. Thus when the tongues 28 of the rail 26 which carries the disks 42 are being inserted in the keepers 41 upon the cleats 14 the flattened edges 43 of the disks 42 will be flush
 110 or in the same plane as the side of the said rail. After the rail is positioned upon the cleats 14 the disks 42 are turned so that their rounded edge portions are projected into kerfs 44 provided in the cleats 14 and
 115 thus the rails 26 are securely held in position upon the said cleats.

When the rifles are placed in position between the clamping devices carried by the rails 26 and blocks 21 the breech blocks of
 120 the rifles are removed and therefore an operator may stand at the side of the table and insert a rod or other cleaning device into the barrel of the rifle through the breech thereof and effectually clean the same
 125 without inserting the cleaning implement into the barrel through the muzzle.

Having thus described the invention, what is claimed as new is:

1. A cleaning table comprising legs, side 130

rails connecting the legs together, rail sections arranged in pairs and hingedly connected with the legs at the ends of the table, the members of each pair being hingedly
 5 connected together to swing inwardly, means for holding the members of the pairs in alinement with each other, a top hinged to one of the said side rails, holding devices mounted upon the top, and means for secur-
 10 ing the top in folded position against the legs at one side of the table.

2. A cleaning table comprising legs, side rails connecting the legs together, rail sections arranged in pairs and hingedly con-
 15 nected together and hinged to the legs at the ends of the table, a top hinged to one of the side rails, retaining devices mounted on the top, means for holding the top in folded position against two of the end legs,
 20 and a casing arranged between the connecting side rails of the other two end legs.

3. A cleaning table comprising legs, side rails connecting the legs together, rail sections arranged in pairs and hingedly con-
 25 nected together and hingedly connected with the legs and arranged to swing inwardly at their inner ends, means for holding the said rail sections in alinement with each other, a top hingedly mounted upon one of the side
 30 rails, means for securing the top in folded position against two of the legs, cleats carried at the under side of the top, keepers carried by the said cleats, keepers located at the edges of the top, rails having tongues
 35 adapted to enter the keepers upon the top and adapted to enter the keepers upon the cleats, blocks adjustably mounted upon the top, and clamping devices carried by the last mentioned rails.

4. In a cleaning table, a top, oppositely disposed parallel rails detachably mounted at the edges of the top, gun clamping mem-
 40 bers carried by said rails and disposed in staggered relation to each other, perforated muzzle holding blocks slidably mounted upon the top, and means for holding said
 45 blocks in adjusted positions.

5. In a cleaning table, a top, rails detachably mounted at the edges thereof, clamping

members carried by the rails, perforated 50 muzzle holding blocks adjustably mounted upon the top and having openings, and slides carried by the blocks and adapted to be projected across the openings.

6. In a cleaning table, a top, rails detach- 55 ably mounted at the edges thereof, fixed jaws mounted upon the rails, slidable jaws mounted upon the rails and adapted to co-operate with the fixed jaws, said slidable jaws having spring arms, and means for 60 moving the slidable jaws operatively connected with said arms.

7. In a cleaning table, a top, keepers mounted at the edges of the top, rails hav- 65 ing tongues adapted to enter the said keepers, and clamps carried by the rails.

8. In a cleaning table, a top, rails detach- ably applied to the edges thereof, fixed jaws mounted upon the rails, jaws slidably mounted upon the rails and having spring 70 arms, shafts journaled in the rails and operatively connected with the spring arms of the slidable jaws, an arm resiliently mounted upon the shaft and carrying a lug, the rails having a series of apertures located in 75 the path of movement of the said lug.

9. In a cleaning table of the character de- scribed, a top, oppositely disposed rails mounted on the top and extending parallel to each other, said rails being each cut 80 away at a plurality of points, breech clamping members mounted in said cut-away portions, the cut away portions of one rail having a staggered relation to the cut-away portion of the opposed rail, and muzzle-holding 85 members mounted upon the table, one opposite each of the said cut-away portions of the rails and having staggered relation to each other, said muzzle-holding members being adjustable toward or from the corre- 90 sponding cut-away portions of the rails.

In testimony whereof I affix my signature in presence of two witnesses.

DANIEL L. LARSEN. [L. s.]

Witnesses:

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