

983,203.

Fig. 1.

12

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11

Fig. 2.

This diagram shows a cross-section of a mechanical assembly. At the top, a vertical rod (12) passes through a frame. Below this, a series of vertical rods (22) are arranged in a row. A horizontal bar (28) is positioned below these rods, with a spring (29) attached to it. A large, curved lever (26) is on the left side, and a handle (27) is on the right. At the bottom, a row of vertical rods (21) is shown, with a horizontal bar (20) below them. The entire assembly is housed within a frame (10) with various internal components (12, 22, 28, 29, 26, 27, 21, 20) and a base (20).

Fig. 3.

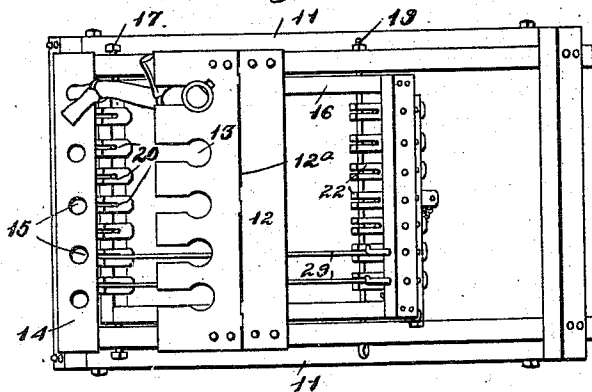


Fig. 4.

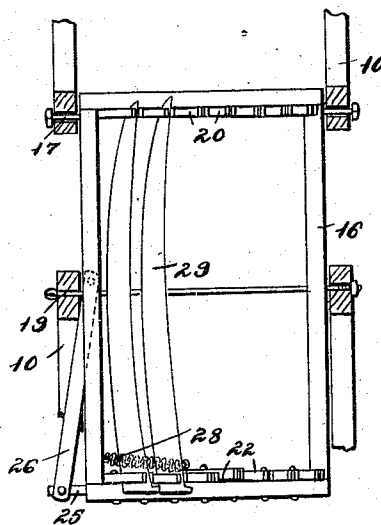
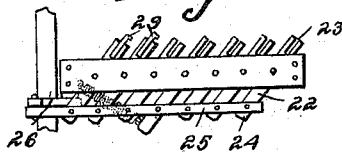


Fig. 5.



Inventor:
Harry Carver.
by J. Ralph Enwig atty.

Inventor.

Harry Carver.

by J Ralph Onwig Atty.

UNITED STATES PATENT OFFICE.

HARRY CARVER, OF FONTANELLE, IOWA.

DISPLAY-RACK FOR SCYTHES.

983,203.

Specification of Letters Patent.

Patented Jan. 31, 1911.

Application filed June 13, 1910. Serial No. 566,508.

To all whom it may concern:

Be it known that I, HARRY CARVER, a citizen of the United States, residing at Fontanelle, in the county of Adair and State of Iowa, have invented a certain new and useful Display-Rack for Scythes, of which the following is a specification.

The object of my invention is to provide a display rack of simple, durable and inexpensive construction in which a number of scythe snathes may be conveniently and easily held in a manner best adapted to be displayed and also in which a number of scythe blades may be displayed in such a manner that their cutting edges will be protected by the display rack, and also to provide a blade holder so arranged that it may be readily and easily moved to position where the blades are accessible and when so moved the blades will be automatically turned so that their flat sides will be uppermost to thereby avoid danger in handling and to better display the flat sides of the blades to the operator.

My invention consists in certain details, in the construction, arrangement and combination of the various parts of the device, whereby the objects contemplated are attained, as hereinafter more fully set forth, pointed out in my claims and illustrated in the accompanying drawings, in which:

Figure 1 shows a side elevation of a display rack embodying my invention with scythe snathes and blades therein; the dotted lines in said figures show the blade tray in its elevated position for permitting access to the blade. Fig. 2 shows a rear end elevation of same. Fig. 3 shows a top or plan view of same. Fig. 4 shows a detail, sectional view illustrating the tray in its substantially horizontal position with the scythe blades in position with their flat sides uppermost, and Fig. 5 shows a detail view of the rear end of the tray with the blade supporting arms in a tilted position for presenting the flat sides of the scythe blades uppermost.

Referring to the accompanying drawings, the frame of the device is seen to be composed of four uprights 10 connected at their lower ends by the braces 11 and at their tops by a flat plate 12, which flat plate

projects out over the front of the frame and is provided with a series of slots 13 designed to receive scythe snathes. This plate is divided longitudinally along the line 12^a, as shown in Fig. 3, and the parts are hinged together in an ordinary manner by the hinges 12^b shown in Fig. 2, so that the side rails 11 of the frame may be removed and then the front and back legs swung together to fold up the frame. Near the bottom of the front of the frame is a bracket 14 having openings 15 therein designed to receive the lower ends of scythe snathes. The manner in which scythe snathes are placed in the bracket 14 and the slots 13 is clearly illustrated in Figs. 1 and 2.

The means for holding the scythe blades comprises a rectangular tray frame 16 having extended through its forward end a rod or bolt 17, which rod or bolt also extends through the slots 18 formed in the forward legs so that the said tray frame may have a limited sliding movement relative to the front legs. A rod or bolt 19 is connected with the rear legs and extended across the main frame at a point near the upper portion thereof and the said tray frame has its rear end normally resting on this rod 19. By the arrangement and construction of the tray frame as described, it is obvious that when the tray is in the position shown by solid lines in Fig. 1, its top surface is protected by the frame itself and by the snathes at the front thereof and it is also obvious that the tray may be readily and easily grasped at its rear end and pulled rearwardly until it assumes the substantially horizontal position shown by dotted lines in Fig. 1, in which position it will be supported by its own weight so that access may be had to the blades thereon and then if the rear end of the tray is slightly tilted the tray will automatically slide to the position shown by dotted lines in Fig. 1.

The means for supporting scythe blades in the tray is as follows: Pivoted to the forward end of the tray frame is a series of arms 20 each provided with a slot 21 of a size to receive the point of a scythe blade. Pivoted to the rear of the tray frame is a similar series of arms 22 provided with slots 23 at their upper ends and with exten-

sions 24 at their lower ends. These extensions are all pivotally connected to a rod 25 which extends beyond the side of the tray. Obviously when this rod is moved to one limit of its movement, as shown in Fig. 2, the arms 22 will all stand in upright positions and the blades resting in the slots thereof will also stand in position with their edges up and when the rod 25 is moved to its other limit of movement, as shown in Fig. 5, the arms 22 will all be tilted laterally and the flat sides of the blades will be uppermost. In order to provide for automatically actuating the rod 25, I have pivoted to its outer end a lever 26, which lever is extended forwardly under the tray and is pivoted to the central portion of the tray by means of the bolt 27. A contractible coil spring is attached to the side of the tray and also to one of the arms 22, as shown in Fig. 2, to thereby yieldingly hold the arms 22 to the position shown in Fig. 5.

In practical operation with this part of the device and assuming that the blade tray is in the position shown in Fig. 1, then the adjacent leg of the frame will engage the lever 26 and hold it against the spring 28 in position with all of the arms 22 in upright positions. Then as soon as the tray is elevated and moved to the position shown by dotted lines in Fig. 1, the lever 26 will be beyond the leg of the frame and the spring will then move the arms 22 to tilted positions; then when the tray is again replaced in the frame the lever 26 by engaging the adjacent leg will move the arms 22 to upright positions. When scythe blades 29 are placed in the arms 22 and the arms 20 these blades will tend to turn the arms 20 in the same manner as the arms 22 are turned.

In use the device may be placed in very compact form for shipping or storing by removing the bolts of the said braces 11 and then folding the legs together, the hinges in the plate 12 being provided for this purpose. The device may be readily and easily set up for use by simply placing bolts in the side rails 11 of the frame. A number of scythe snathes may be placed in the plate 12 and the bracket 14, as shown in the drawings, and these will form an attractive display and they will also serve to protect the blades in the tray behind them and yet the blades may be seen through between the snathes. The rack with the snathes and blades therein may readily and easily be handled and moved from place to place without danger and when it is desired to display the blades the operator may, without removing them from the tray, slide the tray in and out and expose to the customer both the sharp edge of the blade as well as the sides of the blade

so that the blades may be examined all over without actually handling them.

I claim as my invention:

1. A display rack for scythes, comprising a top plate having slots therein, two front legs extended downwardly and forwardly from said plate, two rear legs extended downwardly and rearwardly from said plate, a tray slidably supported on the forward legs to move longitudinally thereof, and a rod connected with the rear legs and designed to receive and support said tray, said parts being so arranged that when the tray is moved forwardly its forward end will incline downwardly and when said tray is moved rearwardly it will be supported in a substantially horizontal position upon the said rod.

2. A display rack for scythes, comprising a top plate having slots therein, two front legs extended downwardly and forwardly from said plate, two rear legs extended downwardly and rearwardly from said plate, a tray slidably supported on the forward legs to move longitudinally thereof, a rod connected with the rear legs and designed to receive and support said tray, said parts being so arranged that when the tray is moved forwardly its forward end will incline downwardly and when said tray is moved rearwardly it will be supported in a substantially horizontal position upon said rod, a series of pivoted arms connected with the tray and slotted to receive scythe blades, and means for automatically moving the pivoted arms to position for displaying the flat sides of the blades when the tray is moved to a substantially horizontal position, and means for automatically returning the pivoted arms to upright positions when the tray is moved forwardly.

3. A display rack for scythes, comprising a top plate having slots therein, two front legs extended downwardly and forwardly from said plate, two rear legs extended downwardly and rearwardly from said plate, a tray slidably supported on the forward legs to move longitudinally thereof, a rod connected with the rear legs and designed to receive and support said tray, said parts being so arranged that when the tray is moved forwardly its forward end will incline downwardly and when said tray is moved rearwardly it will be supported in a substantially horizontal position upon the said rod, a series of pivoted arms connected with the tray and slotted to receive scythe blades, means for automatically moving the pivoted arms to position for displaying the flat sides of the blades when the tray is moved to substantially horizontal position, means for automatically returning the pivoted arms to upright positions when the tray

is moved forwardly, said means comprising a rod connecting the pivoted arms at the rear of the tray, a lever pivoted to said rod and to the central portion of the tray and
5 designed to coact with the adjacent supporting leg of the frame, and a spring connected with one of the pivoted arms and with the adjacent side of the tray to automatically

move the arms to tilted positions, substantially as and for the purposes stated.

Des Moines, Iowa, June 3, 1910.

HARRY CARVER.

Witnesses:

E. O. WALSWORTH,
H. M. REED.