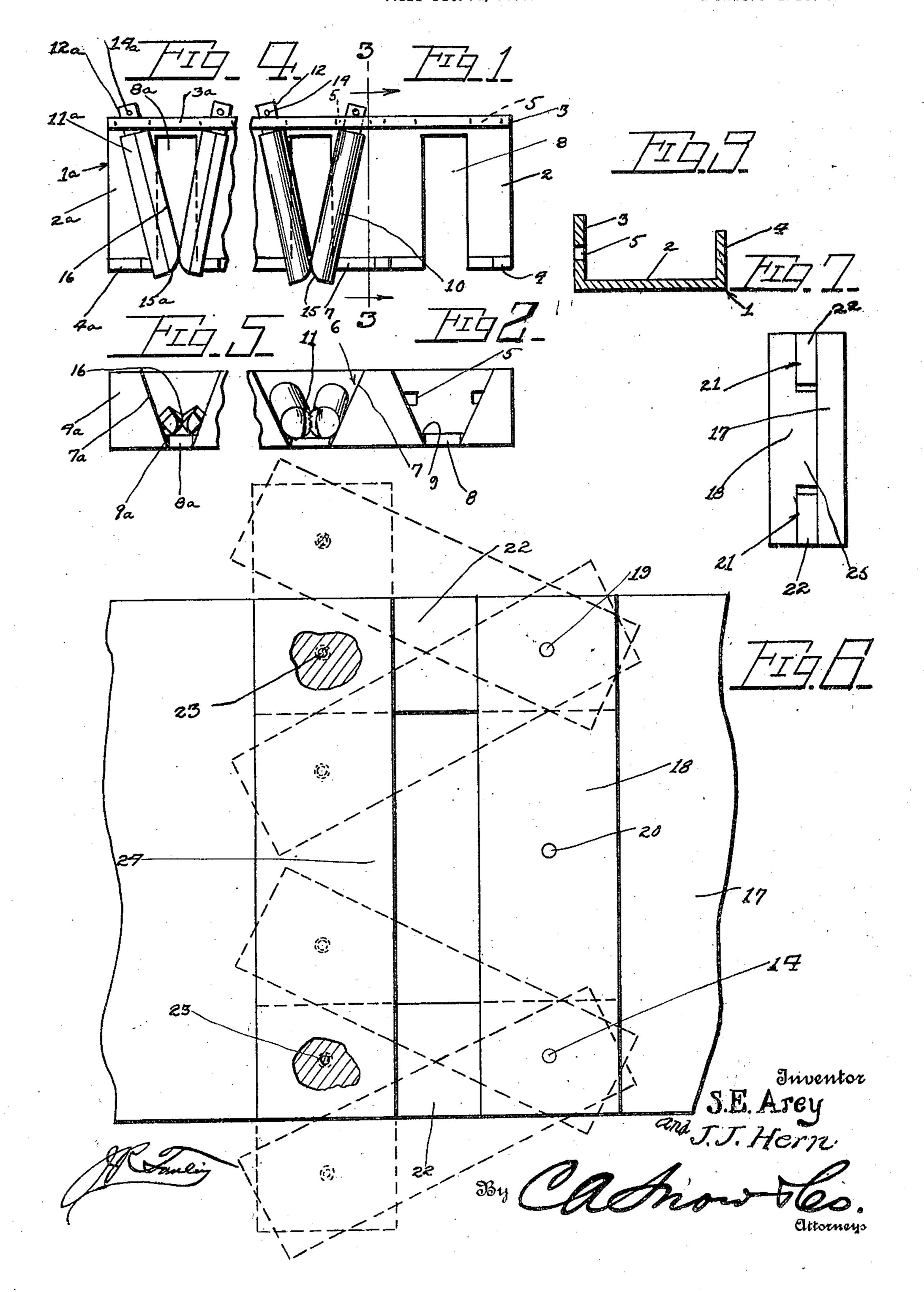
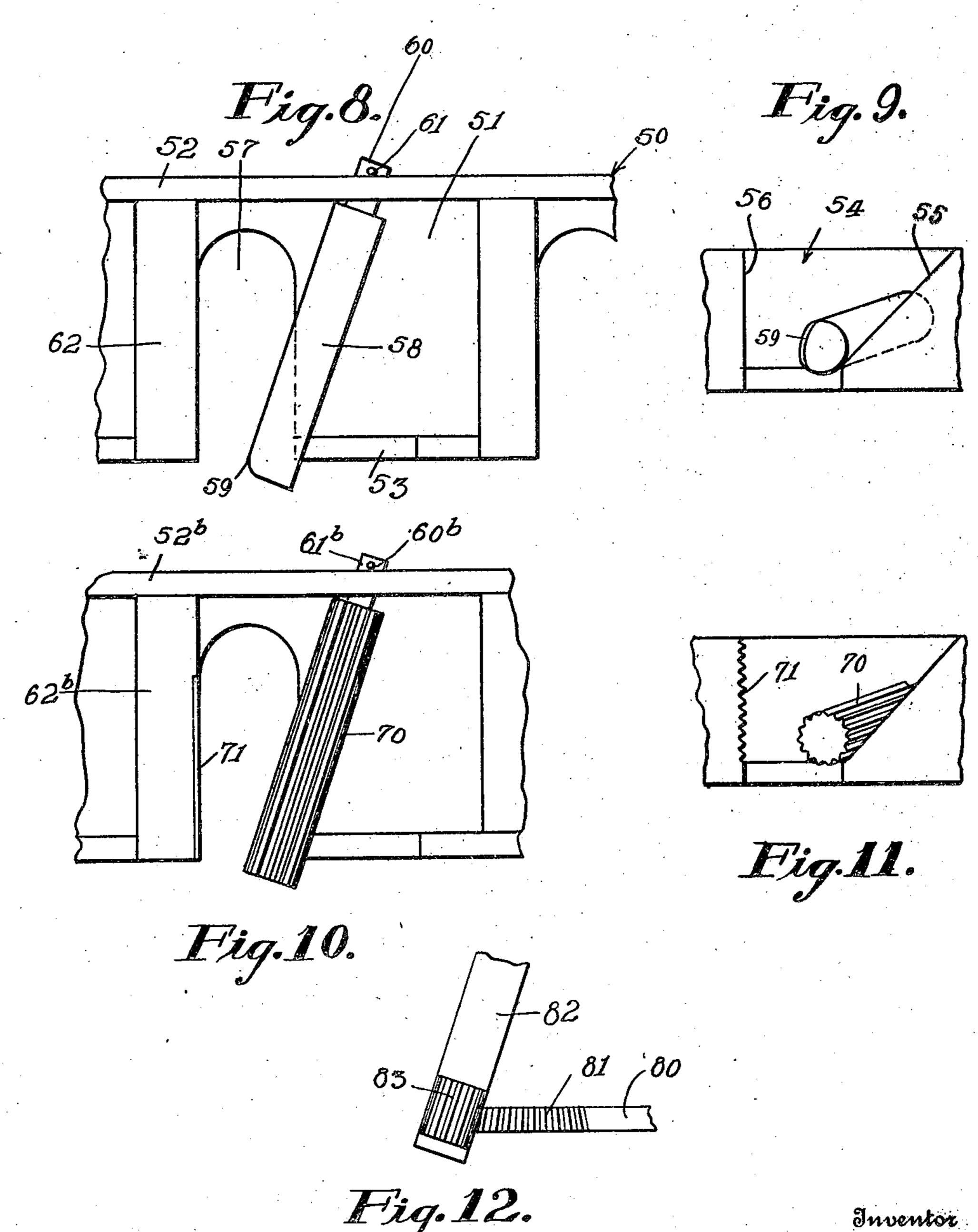
S. E. AREY ET AL.
SUCKER ROD HANGER.
FILED DEC. 10, 1919.

2 SHEETS-SHEET 1.



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2 SHEETS-SHEET 2.



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UNITED STATES PATENT OFFICE.

SAMUEL E. AREY AND JAY J. HERN, OF FELLOWS, CALIFORNIA.

SUCKER-ROD HANGER

Application filed December 10, 1919. Serial No. 343,901

To all whom it may concern:

Be it known that we, Samuel E. Arey tion. and JAY J. HERN, citizens of the United 5 of Kern. State of California, have invented a new and useful Sucker-Rod Hanger, of which the following is a specification.

10 for suspending sucker rods of the sort com-15 with equal facility, be removed therefrom, notch 6. Retainers 10 are provided, the will remain at any point desired above the with shanks 12 which are of rectangular under the collar.

25 to improve generally and to enhance the of the flange 3 and to hold the retainers in utility of devices of that type to which the

invention appertains.

With the above and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that, within the scope of what is claimed, changes 35 in the precise embodiment of the invention shown may be made without departing from the spirit of the invention.

In the accompanying drawings:—

Figure 1 shows in top plan, a device con-40 structed in accordance with the invention; Figure 2 is a front elevation of the structure shown in Figure 1; Figure 3 is a cross section taken on the line 3-3 of Figure 1; Figure 4 is a top plan showing a modifica-45 tion; Figure 5 is a front elevation showvation showing a still further modification; Figure 7 is an elevation wherein the struc-50 Figure 8 is a top plan showing a modified fact that the retainers 10a are of rectangular elevation of the structure shown in Figure 16 to the sucker rod or other object which is 8; Figure 10 is a view similar to Figure 2 to be suspended. but showing a further modification; Figure In Figures 6 and 7, the numeral 17 de- 110 55 11 is an elevation of the structure shown signates a portion of a frame work or sup-

mental top plan showing a slight modifica-

Referring to Figures 1, 2 and 3, there is States, residing at Fellows, in the county provided a trough-shaped support 1 includ- 60 ing a base 2, a rear wall 3 and a front wall 4. The rear wall or flange 3 is supplied with rectangular openings 5. In the front The device forming the subject matter of wall or flange 4 there are notches 6 defined this application is adapted to be employed by downwardly converging edges 7. Slots 65 or openings 8 are formed in the base 2 and monly used in connection with well drilling, open at one end through one edge of the and the invention aims to provide novel base. Portions 9 of the base 2, on each side means whereby the sucker rods may be in- of the slot 8, at said open end thereof, proserted readily into a supporting frame and, ject beyond the converging edges 7 of the 70 the construction being such that the rods are same being, if desired, of circular cross suspended by a cam or cams at any point section, and having their inner edges milled desired, the rods being so suspended in the or otherwise roughened as shown at 11. At hanging device that the collar on the rod their rear ends, the retainers 10 are supplied 75 frame, the end in view being to enable a cross section, the shanks 12 being mounted sucker rod elevator to be applied to the rod in the openings 5 of the rear flange 3 of the support 1. Securing elements 14, such as It is within the province of the disclosure pins pass through the shanks 12 to the rear 80 the said flange. The forward ends of the retainers 10 are mounted to slide downwardly on the converging edges 7 of the notches 6. The forward extremities of 85 the retainers 10 preferably are beveled, as indicated at 15.

> In practical operation, the forward ends of the retainers 10 are supported on the portions 9 of the base 2 of the support 1. A 90 sucker rod or like object is inserted between the retainers 10, the beveled portions 15 of the retainers facilitating such an operation. The retainers 10 ride upwardly on the edges 7 of the notches 6 during the insertion of the 95 sucker rod between the retainers, and, after the sucker rod has been mounted in place between the retainers, the retainers tend to slide downwardly along the edges of the notches 6 and grip the rod, the rod thus 100 being supported in the slot 8.

ing a modification; Figure 6 is a front ele- In Figures 4 and 5, parts hereinbefore described have been designated by numerals previously used with the suffix "a." This ture shown in Figure 6 is viewed endwise; form of the invention is characterized by the 105 form of the invention; Figure 9 is a front cross section and present sharpened edges

in Figure 10; and Figure 12 is a frag-port. A fixed jaw, preferably in the form

by securing elements 19 and 20, the block In Figure 12, the retainer 82 has cog teeth or jaw 18 having openings 21 in its ends, defining a central projection 25 which bears 5 against the support 17. The securing element 20 passes through the central projection 25, whereas, the securing elements 19 extend across the openings 21 which exist at the ends of the block or jaw 18. On 10 the securing elements, links 22 are pivoted, rear wall, and a front wall, the base having 65 the links 22 being united by pivot elements an opening, and the front wall having a 23 with a movable jaw 24, constructed like notch defined by edges which converge the block or jaw 18.

It will be obvious that, when a sucker rod 15 is inserted between the jaws 24 and 18, the jaw 24 along with the links 22 will tend to swing downwardly, on the securing elements 19, the sucker rod thus being gripped

between the jaws 24 and 18.

It will be obvious that, since the rectangular parts 12 of the retainers 10 are received against rotation in the openings 5, the retainers cannot rotate on their axes. Consequently, the retainers will preserve their

25 hold on the sucker rod.

Referring to Figure 8 there is shown a trough-shaped support 50 including a base 51, a rear wall 52 and a front wall 53 having a notch 54 defined by an inclined edge 30 55 and an edge 56 disposed at right angles notch 54. The retainer is indicated at 58 and is beveled at 59 at its outer end, the re-35 tainer including a shank 60 mounted in the rear wall 52 as hereinbefore described and held in place by a pin 61. In this form of the invention, one of the movable retainers shown in Figures 1 and 4 is replaced by a 40 fixed retainer 62 extended between the walls 53 and 52.

In Figures 10 and 11, parts shown in Figures 8 and 9 are designated by numerals used in those Figures, with the suffix "b." 45 In this form of the invention, the retainer may be provided with corrugations or teeth 70, these corrugations or teeth being applied to the movable retainer. The fixed retainer 62^b may be provided with teeth 71.

It has been pointed out hereinbefore that the shanks of the retainers are held against rotation in the rear wall of the troughshaped support. In case it should be desired to have the shanks of the retainers ro-55 tate in the said rear wall, then the construc-

of a block 18, is attached to the support 17 tion shown in Figure 12 may be resorted to. 83 meshing into the rack 81 formed in the corresponding inclined edge of the notch in the front wall 80.

Having thus described the invention, what

is claimed is:—

1. In a device of the class described, a trough-shaped support including a base, a downwardly toward the notch; and retainers having their rear ends pivoted to the rear wall, the forward ends of the retainers 70 being slidably mounted on the converging edges of the notch.

2. A device of the class described, constructed as set forth in claim 1 and further characterized by the fact that the retainers 75 are held in the rear wall against rotation.

3. In a device of the class described, a trough-shaped support including a base, a rear wall, and a front wall, the base having a slot which opens at one end through one 80 edge of the base, and the front wall having a notch defined by edges which converge downwardly toward the slot portions of the base, on each side of the slot, at said open end thereof, projecting beyond the converging 85 to the base 51. An opening 57 is formed in edges of the notch; and retainers having the base 51 and communicates with the their rear ends pivoted to the rear wall, the forward ends of the retainers slidably mounted on the converging edges of the notch, and being supported on said portions 90 of the base.

4. In a device of the class described, a trough-shaped support including a base, a rear wall and a front wall, the base having an opening, the front wall having a notch, 95 one edge of which slants downwardly and inwardly, and retainers extended between the front and rear walls, one retainer being movable and having its forward end slidably mounted on the said edge of the notch, the 100 rear end of the retainer being mounted movably in the rear wall.

In testimony that we claim the foregoing as our own, we have hereto affixed our signatures in the presence of two witnesses.

SAMUEL E. AREY. JAY J. HERN.

Witnesses: W. B. BLODGET, J. N. WILLIAMS.