

March 18, 1947.

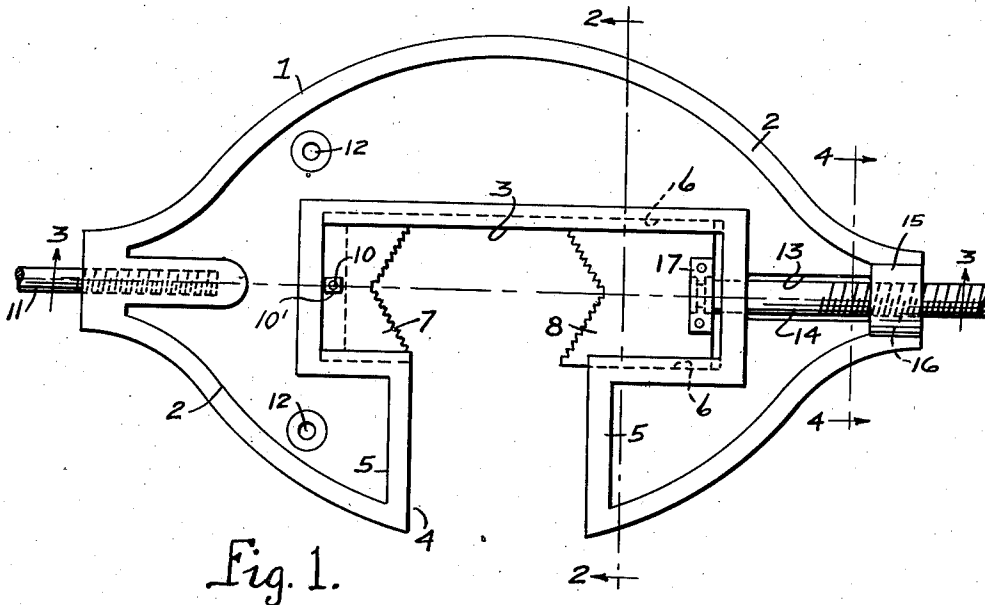
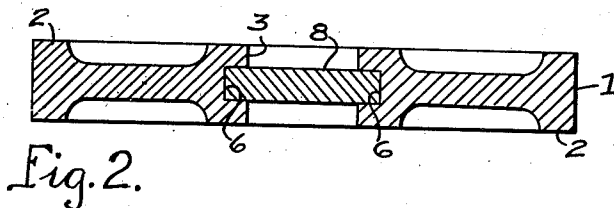
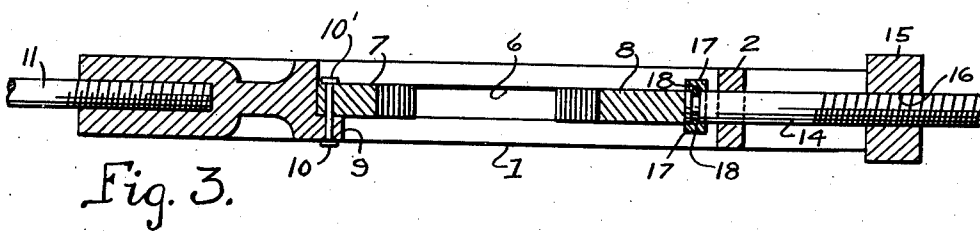
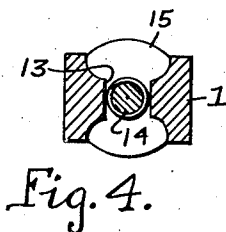
W. S. WILKISON

2,417,533

PUMP ROD AND PIPE CLAMP

Filed Feb. 9, 1945

2 Sheets-Sheet 1



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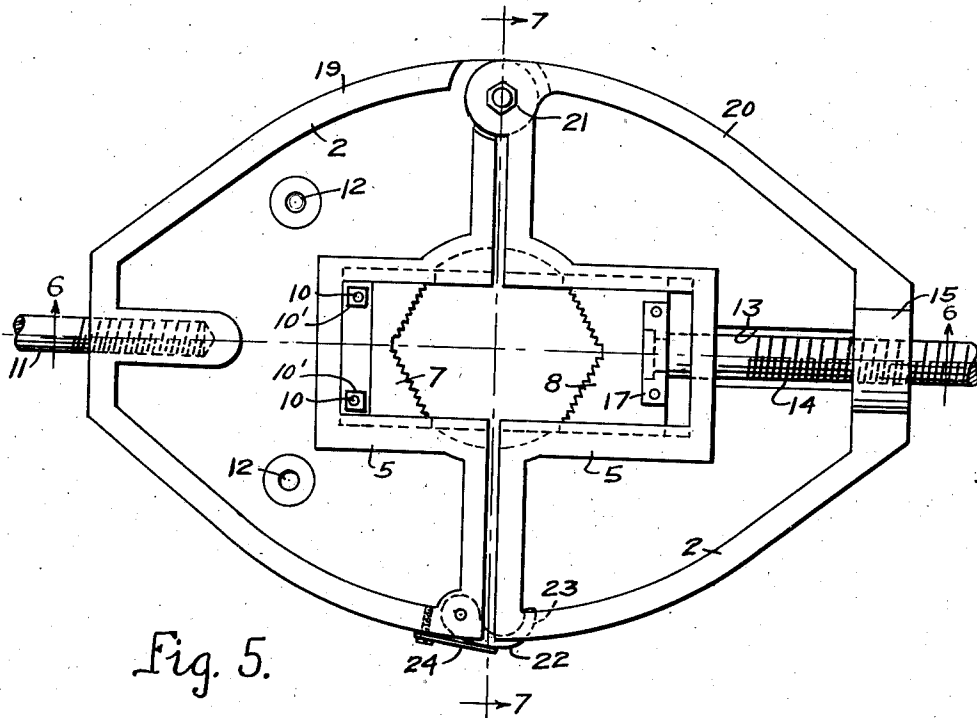
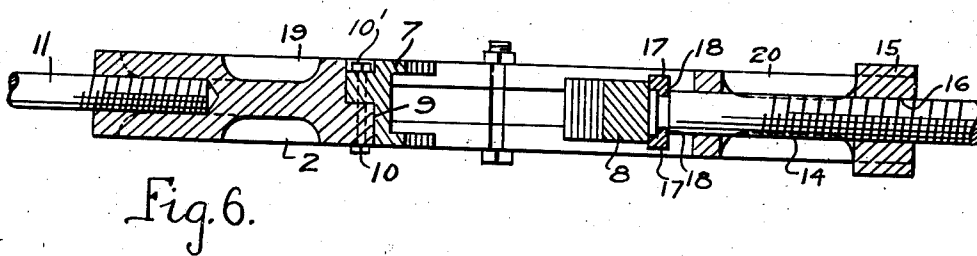
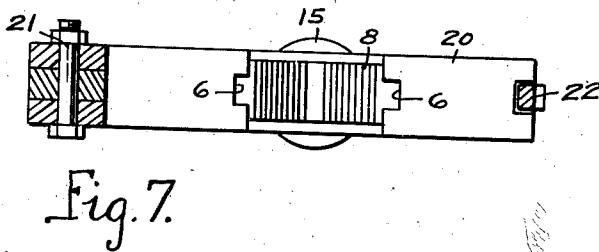
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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE

2,417,533

PUMP ROD AND PIPE CLAMP

Wylie S. Wilkison, Bayard, N. Mex.

Application February 9, 1945, Serial No. 577,045

2 Claims. (Cl. 81-18)

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My present invention, in its broad aspect, has to do with improvements in rod and pipe wrenches, and is especially adapted for clamping and holding pump rods. Since pump rods are ordinarily wet or damp upon removal from a well, it is difficult to hold a pump rod by an ordinary wrench unless it is gripped at a joint or the like, and in the event a pump rod is released, it is a laborious, time and money consuming job to again clamp the rod to remove it, usually necessitating the removal of pipe sections.

My invention has a relatively heavy body carrying a fixed jaw, and a movable or clamping jaw which is fed toward and away from the fixed jaw by an operating screw to securely grip a pump rod, a pipe or other object therebetween and hold the same in the desired position until purposely released. My device may also be attached to a base, such as a post to be used for repair work in which case it serves as a vise, or pipe clamp or the like. I provide a one-piece body and a sectional hinged body, and the fixed jaw is removably attached thereto by bolts, while the slidable jaw is guided by a rib and groove connection to be easily operated.

Other and equally important objects and advantages of my invention will be apparent from the following description and drawings, but it is pointed out that changes in form, size, shape, construction and arrangement of parts is permissible and within the purview of my broad inventive concept, and the scope of the appended claims.

In the drawings, wherein I have illustrated a preferred form of my invention:

Figure 1 is a top plan view;

Figure 2 is a transverse section on the line 2-2 of Figure 1;

Figure 3 is a longitudinal section on the line 3-3 of Figure 1;

Figure 4 is a transverse section on the line 4-4 of Figure 1;

Figure 5 is a top plan view of a form of my invention wherein the base is sectional and hinged;

Figure 6 is a longitudinal section on the line 6-6 of Figure 5;

Figure 7 is a transverse section on the line 7-7 of Figure 5.

In the drawings wherein like characters of reference are used to designate like or similar parts throughout the several views thereof:

The numeral 1 designates my elongated, substantially oval, relatively thick base member which is flanged as at 2 top and bottom along

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the edges. It will be understood that the body may be of any suitable shape, size and thickness. The body has an elongated rectangular centrally and longitudinally positioned opening 3 formed therein, with which communicates a lateral opening or passage 4 having parallel sides and located midway between the ends of the opening 3, and the ends of the body 1. The body is flanged top and bottom as at 5 around the opening 3 and passage 4, and each side edge is formed with a continuous groove 6 to receive in one end a fixed jaw 7, and in the other a movable jaw 8. A lip 9 underlies the fixed jaw, and a bolt 10 goes through the fixed jaw and through an opening in the lip to hold the fixed jaw in position by means of a nut 10'. At one end of the body is a handle 11 and spaced openings 12 are provided in the body to bolt the same to a base or stump or the like to be used in field repair work as a vise or pipe clamp or the like.

Leading from the end of the body to the end of the opening 3 having the movable jaw is a slot 13 to receive a screw 14. The end of the body is enlarged at 15 and threaded at 16 to receive the screw, which may have any suitable operating handles (not shown.) The movable jaw 8 has blocks 17 with tongues 18 to engage in an annular groove in the end of the screw so that the screw 14 can be turned to feed the movable jaw toward and away from the fixed jaw to clamp an object such as a pump rod (not shown) therebetween or to release the same.

In Figures 5, 6 and 7, I have shown the body formed with sections 19 and 20 hingedly connected as at 21, and the section 19 has a pivoted curved dog 22 to engage in a recess 23 in the section 20 to hold the sections together. A plate spring 24 normally holds the dog in engaging position. The body 19, 20 of Figures 5, 6 and 7 has no lateral passage, but is opened up to engage about a pump rod or the like, after which the sections are locked together by the dog.

From the foregoing, it is believed that the operation and advantages of my invention will be apparent, but it is again emphasized that interpretation of its scope should only be conclusive when made in the light of the subjoined claims.

I claim:

1. A pump rod clamp, comprising a relatively heavy body having marginal edge flanges top and bottom and formed with hingedly connected sections, a dog for holding the sections together oppositely positioned and aligned internally threaded enlargements, a slot in one section in alignment with one of said enlargements, a pair of jaws car-

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ried by the body, one being removably attached thereto to form a fixed jaw, the other jaw being slidable on the body with reference to the first jaw, and a screw for moving the sliding jaw mounted in said slot and said alined enlargement and a handle for the body mounted in the opposite alined enlargement.

2. The invention as defined in claim 1 wherein the body is formed with similar sections meeting at a point midway the end of the body, means 10 for hingedly connecting the sections, the locking dog for holding the sections together being spring-pressed and fitting in a locking recess.

WYLIE S. WILKISON. 15

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