

Aug. 4, 1931.

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1,817,233

DEVICE FOR PULLING OR CARRYING SUCKER RODS

Filed April 13, 1931

*Fig. 1.*

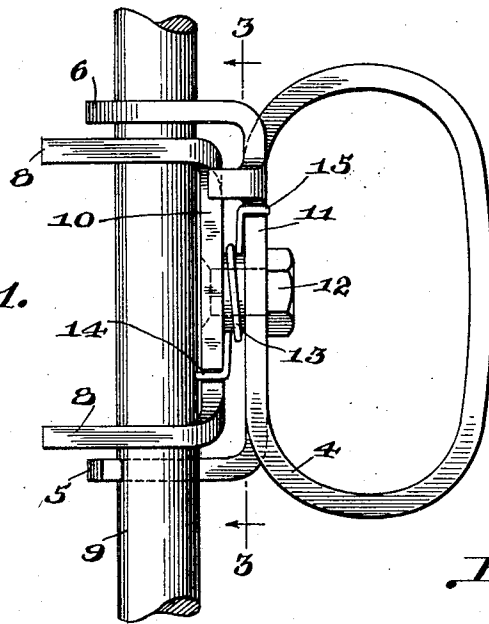


*Fig. 2.*

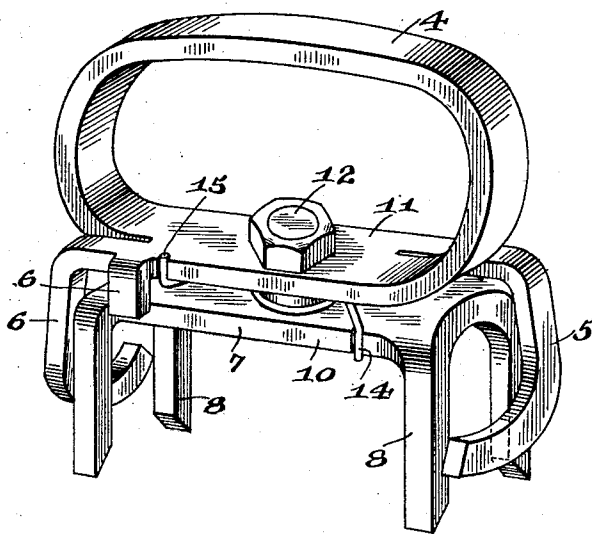
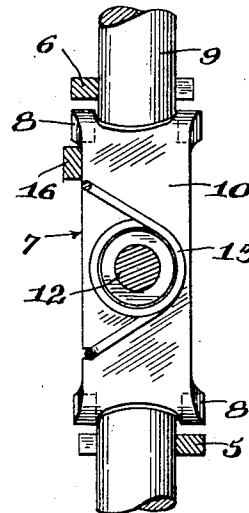


*Fig. 3.*



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## UNITED STATES PATENT OFFICE

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## DEVICE FOR PULLING OR CARRYING SUCKER RODS

Application filed April 13, 1931. Serial No. 529,769.

This invention relates to an improved device for carrying out the sucker rods of well pumps, but it may be employed wherever it is necessary to handle rods or rod like elements.

Such a device is of great assistance in tailing out sucker rods, especially in cold weather when the rods are dripping wet, for it eliminates the necessity of bringing the hands or gloves into contact with the rods, and thereby saves the hands from freezing. Furthermore, in pulling rods out of a well it is necessary to carry the rods to a platform built for that purpose, and quite often, men in carrying out these rods are injured, since the rods are covered with oil, as is everything else in the vicinity. My device provides a handle for use in pulling or carrying such slick rods.

The primary object of the invention is to provide a rod pulling or carrying device consisting of a few elements only and of a simple and inexpensive construction.

With the foregoing object outlined and with other objects in view which will appear as the description proceeds, the invention consists in the novel features hereinafter described in detail, illustrated in the accompanying drawings, and more particularly pointed out in the appended claims.

In the drawings,

Fig. 1 is a side elevation of the device shown attached to a sucker rod.

Fig. 2 is a perspective view of the device.

Fig. 3 is a sectional view on the line 3—3 of Fig. 1.

Referring to the drawings, 4 designates a loop-shaped metal handle provided at one side with a hook 5, and at its opposite side with a hook 6; these hooks extending in reverse directions.

The hooks cooperate with a U-shaped element or saddle 7, each leg 8 of which is bifurcated to receive a sucker rod or the like 9. The web 10 of the saddle is arranged parallel to and normally in alignment with the web 11 of the handle, and the saddle is positioned between the hooks 5 and 6, and the webs are pivotally connected at their

central portions by any suitable means such as a bolt 12.

For keeping the webs in parallel relation relatively to the pivot, a coil spring 13 surrounds the pivot pin and has one of its ends anchored to the saddle as shown at 14, and its other end anchored to the handle, as at 15, so that the spring functions always to urge one of the edges of the web 10 into contact with an abutment or stop 16 which projects from the web 11.

In operation, when the saddle is turned into such position that the hooks no longer bridge the spaces formed by the arms of the forks 8, a sucker rod 9 or the like can enter the forks 8 when the tool is placed against the member 9. Now the spring 13 acts to return the handle and the hooks to their normal positions, so that the hooks bridge the forks 8, and thus trap the rod in the device. Obviously, the handle may now be employed to lift or carry the rod, and when it is desired to release the rod, the handle is simply turned in the proper direction relatively to the saddle 7, so that the hooks 5 and 6 are moved out of bridging position, with the result that the rod can now drop out of the forks 8.

If the device is used for lifting rods or pipes which are of relatively small diameter, it is evident that by canting the device relatively to the vertical, that the hook at one end of the device, and the web of the fork at the other end of the device will abut against the rod or pipe, so as to firmly grip it and facilitate the lifting of the same.

From the foregoing it is believed that the construction, operation and advantages of my invention may be readily understood by those skilled in the art, and I am aware that changes may be made in the details disclosed, without departing from the spirit of the invention, as expressed in the claims.

What I claim and desire to secure by Letters Patent is:

1. A device for pulling out sucker rods and the like, comprising a handle member provided with oppositely extending hooks, a saddle member pivotally connected to the handle member and having fork-shaped

ends which cooperate with the hooks for the trapping of a rod-like article, a stop connected to one of said members, and resilient means cooperating with said stop for yieldingly holding said members in alignment.

2. A device for pulling out sucker rods and the like, comprising a loop form handle member provided with oppositely extending hooks, a saddle member pivotally connected to the handle member and having fork-shaped ends which cooperate with the hooks for the trapping of a rod-like article, a stop fixed to one of said members, and resilient means cooperating with said stop for yieldingly holding said members in alignment.

3. A device for pulling out sucker rods and the like, comprising a metal handle member provided with oppositely extending hooks, the hooks being integral with the handle member, a saddle member pivotally connected to the handle member and having fork-shaped ends which cooperate with the hooks for the trapping of a rod-like article, a stop connected to one of said members, and resilient means cooperating with said stop for yieldingly holding said members in alignment.

4. A device for pulling out sucker rods and the like, comprising a handle member provided with oppositely extending hooks, a saddle member pivotally connected to the handle member and having fork-shaped ends which cooperate with the hooks for the trapping of a rod-like article, stop means for limiting the pivotal movement of the saddle member in one direction, and resilient means cooperating with said stop means for yieldingly holding said members in alignment.

5. A device for pulling out sucker rods and the like, comprising a handle provided with oppositely extending hooks, a saddle pivotally connected to the handle and having fork-shaped ends which cooperate with the hooks for the trapping of a rod-like article, a stop on the handle for limiting the pivotal movement of the saddle in one direction, and resilient means cooperating with the stop for yieldingly holding the handle and saddle in alignment.

6. A device of the class described, comprising a handle having a web and oppositely extending hooks at its end, a saddle having a web with fork-shaped ends which cooperate with the hooks to form a trap for a rod-like article, and means pivotally connecting said webs together.

7. A device of the class described, comprising a handle having a web and oppositely extending hooks at its end, a saddle having a web with forked-shaped ends which cooperate with the hooks to form a trap for a rod-like article, means pivotally connecting said webs together, a coil spring sur-

rounding the pivotal means and having its ends connected to the webs, and means for limiting the pivotal movement of the saddle in one direction.

8. A device of the class described, comprising a handle having a web and oppositely extending hooks at its end, said hooks being integral with the web, a saddle having a web with fork-shaped ends which cooperate with the hooks to form a trap for a rod-like article, said fork-shaped ends being integral with the saddle web, means pivotally connecting said webs together, means for limiting the pivotal movement of the saddle in one direction, and resilient means cooperating with the last mentioned means for yieldingly holding said webs in alignment.

9. A device of the class described, comprising a handle having a web and oppositely extending hooks at its end, a saddle having a web with fork-shaped ends which cooperate with the hooks to form a trap for a rod-like article, means pivotally connecting said webs together, a stop for limiting the pivotal movement of the saddle in one direction, and a spring for yieldingly holding one of the webs in contact with said stop.

In testimony whereof, I hereto affix my signature.

ALLEN ROY BUMGARDNER.