Sept. 28, 1926. 1,601,676

L. C. BURRIGHT

TUBING DRAIN

Filed May 24, 1926

Fig. 1.

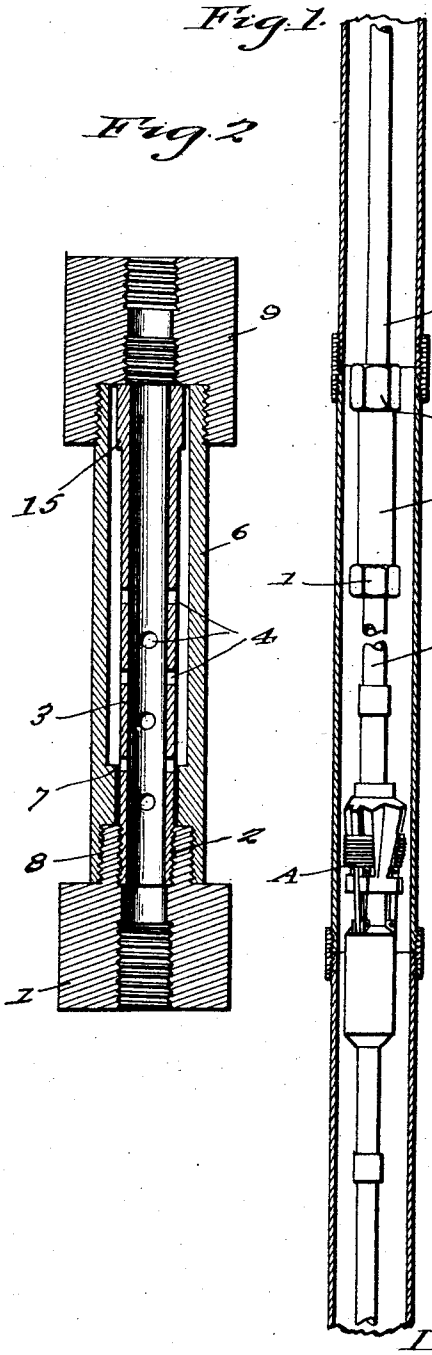
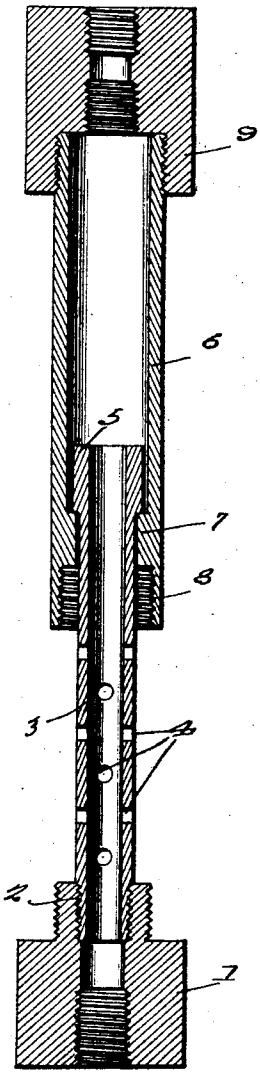


Fig. 2

Fig. 3.



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WITNESS:

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TUBING DRAIN.

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This invention relates to a draining device for well tubing, the general object of the invention being to provide means whereby the tubing can be drained of oil or other liquid before the tubing is pulled from the well so that the tubes will be dry as they are pulled from the well, thus facilitating the handling of the tubing and preventing fires.

Another object of the invention is to so form the drain device that it can be placed in inoperative position before it is put in the well, thus doing away with a water test to see that the device is in closed position.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claims.

In describing my invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:—

Figure 1 is a sectional view with parts in elevation, showing the invention in use in a well.

Figure 2 is a sectional view of the device in closed position.

Figure 3 is a similar view but showing the device in open position.

In these views, 1 indicates a coupling which is provided with a reduced part 2 having internal and external screw threads thereon, the internal threads being right hand, while the external threads are left hand. A tube 3 is threaded in the reduced part 2 and this tube is provided with the perforations 4 and with the enlarged head 5 at its upper end. A larger tube 6 is slidably mounted on the tube 3 and has an internal collar 7 formed adjacent its lower end for engaging the head 5 so as to prevent the tube 6 from coming entirely off the tube 3. The lower end of the tube 6 is internally screw threaded, as at 8 with left hand threads for engaging the exterior threads of the part 2. The tube is threaded to a coupling 9 with right hand threads and both the couplings 1 and 9 are threaded to receive the sections 10 and 11 of the pump tubing. The section 11 is connected with the tubing catcher, shown generally at A in Figure 1, and which acts to hold the lower part of the device against turning movement when the upper part of the device is turned toward the left.

From the foregoing, it will be seen that when tubing is to be pulled from a well, the major portion of the tubing is given a left hand turning movement so as to unscrew the tubing 6 from the coupling 1, the coupling 1 and tubing 3 being held against movement by the catcher A. This will free the tubing 6 from the coupling so that the tubing 6 can be raised to the position shown in Figure 3 to uncover the perforations 4 so that the liquid will drain through the holes and return to the well. Then the tubing can be pulled while dry. The tubing 6 is screwed to the coupling 1 before the device is placed in the well so that a test is not necessary to find out whether or not the drainer is closed when in the well.

It is thought from the foregoing description that the advantages and novel features of my invention will be readily apparent.

I desire it to be understood that I may make changes in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

What I claim is:—

1. A tube drainer comprising a perforated tube, a coupling connected with the bottom thereof, a second tube fitting over the first tube, left hand threads for connecting the second tube to the coupling and a coupling connected with the upper end of the second tube by right hand threads.

2. A tube drainer comprising a perforated tube, a coupling connected with the bottom thereof, a second tube fitting over the first tube, left hand threads for connecting the second tube to the coupling, a coupling connected with the upper end of the second tube by right hand threads and means associated with the two tubes for preventing the second tube from being pulled entirely from the first tube.

LEWIS C. BURRIGHT.