

Sept. 6, 1932.

W. H. ENDSLEY

1,875,577

DEVICE FOR EXTRACTING WELL PIPES

Filed May 26, 1931

2 Sheets-Sheet 1

Fig. 1.

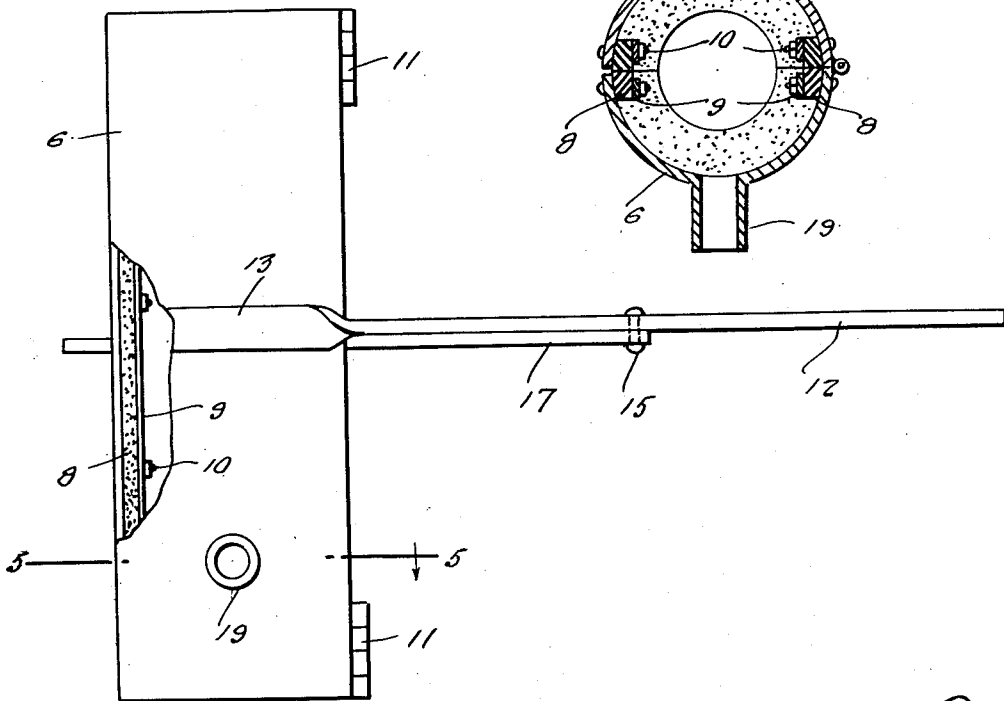


Fig. 5.

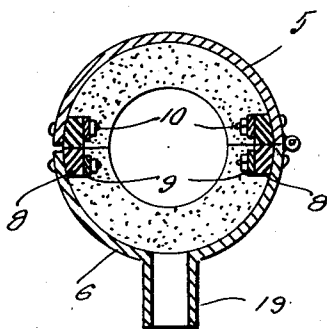
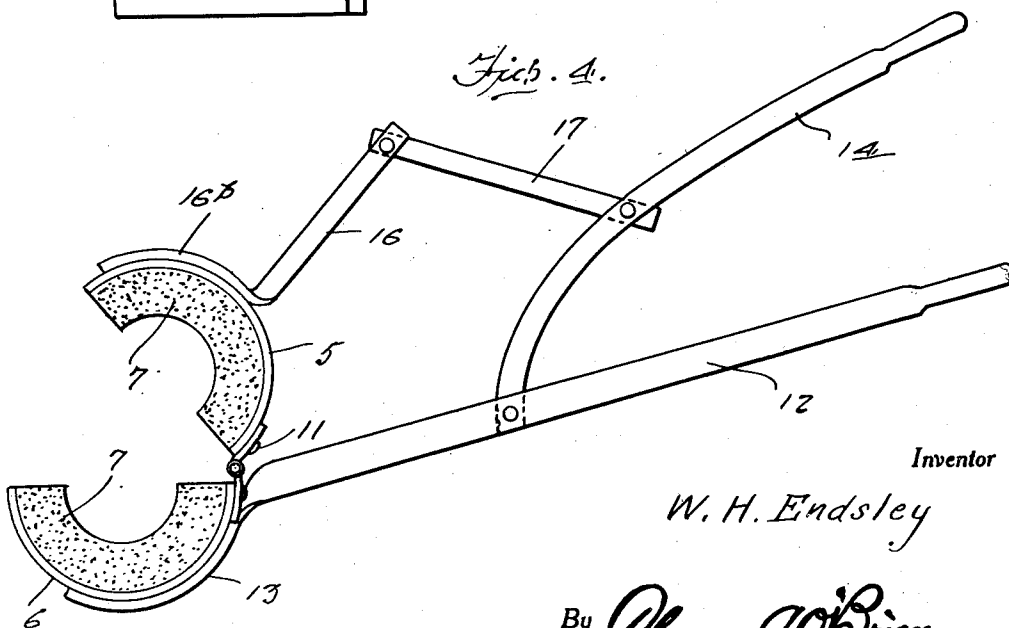


Fig. 4.



Inventor

W. H. Endsley

By *Clarence A. O'Brien*
Attorney

Sept. 6, 1932.

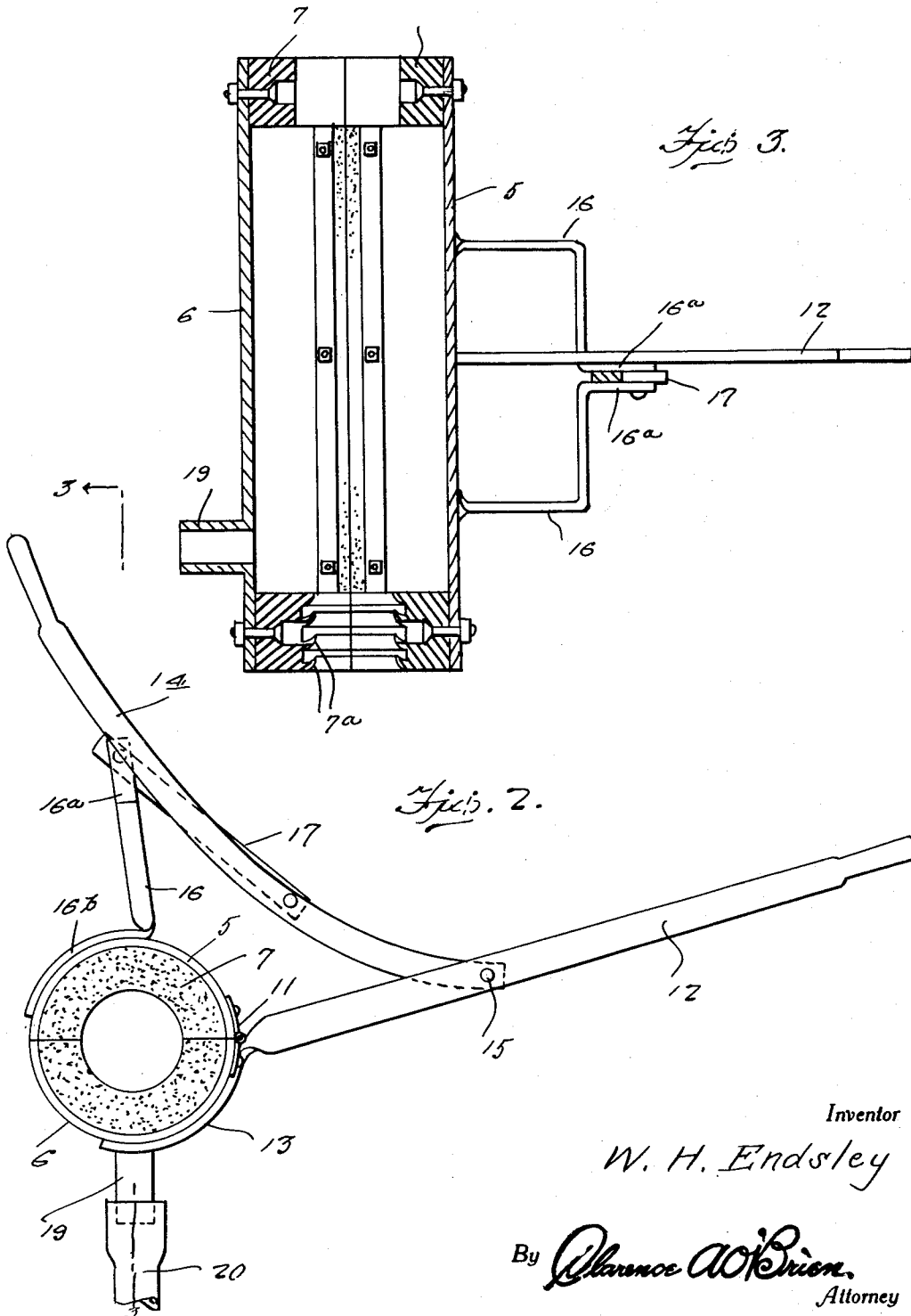
W. H. ENDSLEY

1,875,577

DEVICE FOR EXTRACTING WELL PIPES

Filed May 26, 1931

2 Sheets-Sheet 2



UNITED STATES PATENT OFFICE

WILLIAM H. ENDSLEY, OF SEGUIN, TEXAS

DEVICE FOR EXTRACTING WELL PIPES

Application filed May 28, 1931. Serial No. 540,191.

The object of this invention is to provide a device especially adapted for extracting broken pipes from a well, and more particularly adapted for conveying oil, mud, and the like from the broken pipe to a place remote from the well whereby to prevent the return of the oil, mud or the like to the well.

The nature of the invention, together with its many other objects and advantages will be best understood from a study of the following description, taken in connection with the accompanying drawings wherein;

Figure 1 is a side elevational view of the device, parts being broken away for illustrating certain features of the invention.

Figure 2 is an end elevational view of the device, the same being shown in a fully closed position.

Figure 3 is a longitudinal transverse sectional view through the device, and taken on line 3—3 of Figure 2.

Figure 4 is an end elevational view of the device, the same being shown in an open position.

Figure 5 is a transverse sectional view taken substantially on the line 5—5 of Figure 1.

With reference more in detail to the drawings, it will be seen that my improved device comprises a pair of cooperating semi-cylindrical jaw members 5 and 6 elongated longitudinally. Each of the jaw members adjacent each end thereof has suitably secured thereto a semi-circular washer of rubber or suitable material designated by the reference character 7. Each of said jaws, adjacent each longitudinal edge thereof has secured to the inner sides thereof a strip of rubber or other suitable material 8 extending between the washer segment 7 and secured in place through the medium of elongated metallic retaining strips 9 and bolt and nut means 10. The strips 8 cooperate to provide a fluid tight joint between the adjacent longitudinal edges of the jaws as shown in Figure 5.

Jaws 5 and 6 adjacent one edge thereof are hingedly connected together as at 11. A handle member 12 thereof at one end is welded or otherwise secured to one of the

jaws, in the present instance the jaw 6 as at 13. A second handle member 14 is longitudinally curved, and at one end is pivoted to an intermediate portion of the fixed handle 12 as at 15. The handle member 14 is pivotally connected with the parallel ends 16a of angular bracket arms 16 through the medium of a link 17. The bracket arms 16 at one end are welded or otherwise secured to the outer or convex face of the jaw member 5 as at 16b. Obviously by swinging the handle member 14 relative to the handle member 12, the jaw 5 is moved into and out of clamping relation with its complementary jaw 6.

The segmental rubber washers 7 at one end of the jaws are each provided on its inner concave face with serrations or teeth 7a to insure a fluid tight engagement of the said washer segments about a portion of the pipe to be drawn from the well.

The jaw 6 adjacent the serrated washer segment 7 is provided with an outlet nipple 19 to which a hose or like conduit may be coupled. In actual practice, the parts are first in the position shown in Figure 4 so as to accommodate between the jaws 5 and 6 the pipe to be drawn from the well. With the parts in the position shown in Figure 4, handle 14 is swung to the position shown in Figure 2 thus moving the jaw 5 to a closing position with respect to the jaw 6 so that the jaws 5 and 6 embrace the pipe.

The jaws so embracing the pipe, it will be seen that the washer or gasket segments 7 provide an annular gasket at each end of the jaws for disposition about the pipe and providing a fluid tight joint between the pipe and the jaws. At the same time, the strips 8 provide a fluid tight joint at the confronting edges of the jaws 5 and 6. The pipe thus engaged by the device may be readily removed from the well.

In the event, water, oil, mud or the like remains in the broken pipe, the oil, water or the like will pass from the pipe into the space between the jaws 5 and 6, and will flow from said space through the nipple 19 to a hose 20 coupled thereto as shown in Figure 2 to be conveyed to a suitable en-

closure whereby return of the oil, mud or the like to the well is prevented.

Even though I have herein shown and described the preferred embodiment of the invention, it is to be understood that the same is susceptible to changes, modifications and improvements coming within the scope of the appended claims.

Having thus described my invention, what I claim as new is:

1. A device for extracting oil well tubing, comprising a substantially cylindrical member separated longitudinally to provide complementary sections, hinges connecting the sections at one longitudinal edge thereof, packing means internally of the sections and extending along the end and longitudinal edges of the sections, a handle-member having a curved end secured to the convex side of one of the sections intermediate the ends of said one section, a pair of complementary opposed members having at one end lateral curved extensions secured to the convex side of the other of said sections, a link pivotally connected at one end to corresponding ends of the opposed members, and a lever pivotally connected at one end thereof to said handle, said lever intermediate its ends being also connected to said link.
2. In a device of the character described, a pair of semi-cylindrical members hingedly connected at one longitudinal edge, a handle member having a curved end portion secured to the convex side of one of said members adjacent the hinged edge thereof, an angular member having a curved end secured to the convex side of the other of said semi-cylindrical members adjacent the free edge thereof, a lever pivotally connected to said handle, and a link pivotally connecting said lever with the free end of said angular member.

In testimony whereof I affix my signature.

WILLIAM H. ENDSLEY.

45

50

55

60

65