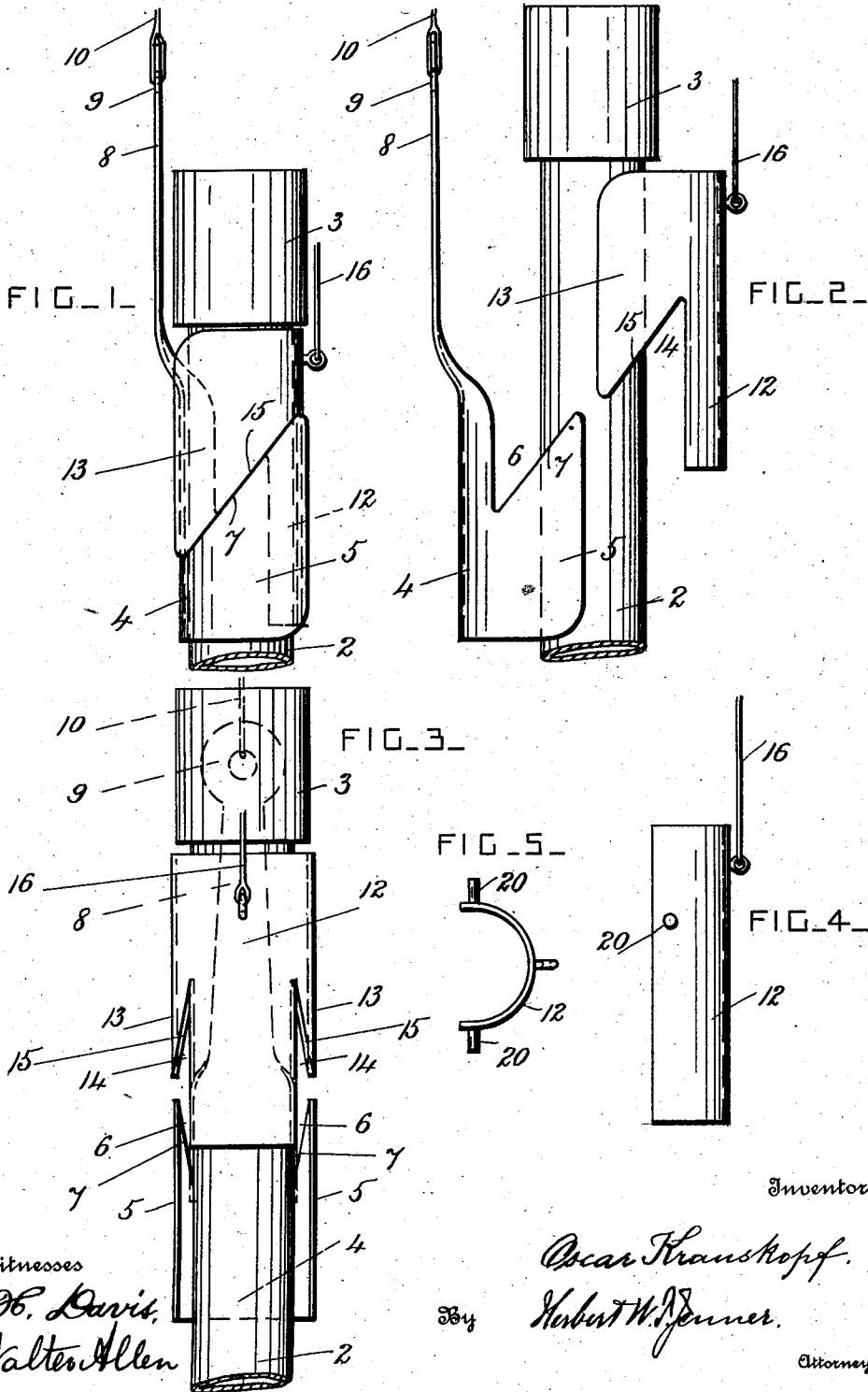


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TUBE CLAMP.
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1,027,423.

Patented May 28, 1912.



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TUBE-CLAMP.

1,027,423.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, OSCAR KRAUSKOPF, a citizen of the United States, residing at Fredericksburg, in the county of Gillespie and State of Texas, have invented certain new and useful Improvements in Tube-Clamps; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to tube clamps for raising and lowering pipe sections in wells; and it consists in the novel construction and combination of the parts hereinafter fully described and claimed.

In the drawings, Figure 1 is a side view of a pipe section provided with a tube clamp according to this invention, and showing the clamp in position to raise the pipe section. Fig. 2 is a side view of the clamp with its members slid out of engagement with the pipe and with each other. Fig. 3 is a side view of the clamp shown in Fig. 2, but turned one-quarter around. Fig. 4 is a detail side view of a modification of the upper clamp member. Fig. 5 is an end view of the same.

The pipe section or tube 2 is provided with a screwthreaded coupling-sleeve 3 at its upper end in the usual way.

The lower clamp member is formed of a channel-shaped plate 4 of sheet metal which bears against one side of the pipe, and which has side portions 5 which project across the pipe. The upper parts of the side portions 5 have V-shaped notches 6 cut in them, and forming upwardly projecting inclined planes 7. The plate 4 has at its upper end an offset tongue 8 which terminates in an eye 9. This tongue 8 is offset to clear the coupling-sleeve 3, and a cord 10 or any other approved hoisting device is connected to the eye 9.

The upper clamp member is formed of a channel-shaped plate 12 of sheet metal which bears against the other side of the pipe 2 from the plate 4. The plate 12 has side portions 13 which project across the

pipe. These side portions have V-shaped notches 14 which form downwardly projecting inclined planes 15. A cord 16 or other lifting device is attached to the back of the plate 12. The top of the plate 12 is arranged to bear against the underside of the coupling-sleeve 3, and the inclined planes 15 are arranged in engagement with the inclined planes 7.

When the pipe is raised by the cord 10 the inclined planes draw the plates 4 and 12 toward each other and thereby clamp the pipe between them. When the pipe has been lowered into the well, the lower clamp member is let down to the position shown in Fig. 2, so that the clamp members are disengaged from each other and from the pipe, and can be drawn up.

In the modification shown in Figs. 4 and 5, the upper clamp member has laterally projecting pins 20 instead of inclined planes or projections. The inclined planes of the lower clamp member engage with the projections 20 so that the pipe is clamped in a similar manner to that hereinbefore described.

These clamp members are made of different sizes to suit different diameters of pipe, but as packing pieces can be inserted between the clamp members and the pipes it is not necessary to have a separate clamp for each size of pipe.

What I claim is:

1. A tube clamp, comprising a lower clamp member formed of a channel-shaped plate having upwardly projecting inclined planes at its sides, an upper clamp member formed of a channel-shaped plate having projections which engage with the said inclined planes, and means for raising and lowering the said clamp members.

2. A tube clamp, comprising a lower clamp member formed of a channel-shaped plate having upwardly projecting inclined planes at its sides, said plate having also an offset tongue which extends upwardly from the middle part of its top edge, an upper clamp member formed of a channel-shaped plate having projections which en-

gage with the said inclined planes, and means for raising and lowering the said clamp members.

3. A tube clamp, comprising a lower
5 clamp member formed of a channel-shaped plate having upwardly projecting inclined planes at its sides, an upper clamp member formed of a channel-shaped plate having downwardly projecting inclined planes at

its sides which engage with the aforesaid 10 planes, and means for raising and lowering the said clamp members.

In testimony whereof I have affixed my signature in the presence of two witnesses.

OSCAR KRAUSKOPF.

Witnesses:

ADOLPH WEHMEYER,
ED PETER.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."