

UNITED STATES PATENT OFFICE.

SAMUEL L. BLAKE, OF PADUCAH, TEXAS.

PIPE PULLER AND HOLDER.

935,186.

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To all whom it may concern:

Be it known that I, SAMUEL L. BLAKE, citizen of the United States, residing at Paducah, in the county of Cottle and State of Texas, have invented certain new and useful Improvements in Pipe Pullers and Holders, of which the following is a specification.

This invention comprehends certain new and useful improvements in devices for pulling pipes from wells, and the invention has for its object a simple, durable and efficient construction of devices of this character, embodying an improved construction of pipe holder designed to hold the pipe securely, and prevent it from dropping downwardly while the pulling device is released from the pipe or rod and lowered to obtain a fresh hold thereon.

The invention consists in certain constructions and arrangements of the parts that I shall hereinafter fully describe and claim.

For a full understanding of the invention reference is to be had to the following description and accompanying drawings, in which—

Figure 1 is a perspective view of my improved pipe holding device, and Fig. 2 is a longitudinal sectional view also showing in section the pipe pulling device.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

Referring to the drawings, the numeral 1 designates the base plate of my improved pipe holder, the same being formed with an opening 2 to receive the pipe or rod and with a frame 3 having an intermediate curved portion extending around said opening. This frame is preferably composed of two metallic strips or bars set on edge on the base plate 1, the end portions formed by said bars extending in longitudinal alignment and in parallel relation, as shown. The frame is securely held in place by means of tie-bars 6. Bolts are secured to the bars and extend directly through the ends of the bars and into and through the base plate 1.

The end portion 4 of the frame 3 is formed with a plurality of openings 7, the corresponding opposite ones of which are designed to receive a pivot bolt 8 upon which a relatively sharp jaw 9 is mounted for a vertical movement, the said jaw being received between the end portions 4 and being partially supported thereby as against side-

wise strain, thereby taking some of the strain off of the pivot bolt 8. A lever 10 is welded or otherwise rigidly secured to the jaw 9, the said lever being forked, as shown, so as to straddle the opening 2, and interfere in no wise with the pipe.

11 designates another jaw which is mounted between the end portions 5 of the frame 3, and which is relatively blunt, the working face of the jaw being preferably serrated, as indicated at 11^a. This jaw 11 is formed with side lugs 12, that are accommodated in longitudinally extending slots 13 formed in the end portions 5 of the frame. A set screw 14 works in a head 14^a, secured between the end portions 5 and is designed to bear against the rear end of the jaw or dog 11, so as to hold it against an outwardly sliding movement after it has been adjusted inwardly according to the diameter of the pipe or rod that is being pulled. Manifestly, the jaw 9 is correspondingly adjusted by shifting its pivot bolt 8 from one set of the openings 7 to another.

In connection with the holding device, before described, I preferably employ a pulling device which embodies a band 15 designed to encircle the pipe or rod, the ends of the band extending parallel to each other and holding a pivot bolt 16 upon which is mounted a bit 17. The bit is formed at its outer end with an eye 18 to which a cable 19 is connected.

In the practical use of my improved pipe pulling and holding devices, the holder is set over the pipe or rod to be pulled and the pulling device is engaged with the pipe, and the pipe is then drawn upwardly until it becomes necessary to obtain a fresh grip thereon, whereupon the pulling device is loosened and the jaw 9 and dog 11 instantly grip the pipe and hold it against downward movement. As soon as the pulling device is again secured to the pipe at a lower point than that at which it was formerly secured, an upward pull is again given, which will by itself release the jaw 9 and dog 11 from the pipe, although if desired, the handle or lever 10 may be raised during the forward movement of the pipe so as to positively release the same. Obviously, this operation is repeated until the pipe is pulled to the required height or entirely extracted.

Not only does the forking of the handle lever 10 produce two handles which embrace the pipe and in no wise interfere with

the operation of the device, but it is also to be noted that by this means the handle ends of the lever project over to that end of the base whereby the adjusting screw 14 is located, whereby the operator may stand at such end of the device and manipulate the end levers, while at the same time adjusting the set screw 14 whenever necessary.

Having thus described the invention, what is claimed as new is:—

A pipe holder, comprising a base plate formed with an opening extending there-through, a jaw pivotally mounted on the base plate at one side of said opening, a dog mounted on the base plate at the opposite side of said opening substantially in dia-

metrical relation to the jaw, a set screw adapted to bear against the rear end of the dog to adjust the same, and a lever secured to said jaw, the lever being forked whereby to straddle a pipe or the like extending through the base plate, the handle ends of the fork members of the lever being arranged in the lowered position thereof to project over to the set screw, as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

SAMUEL L. BLAKE. [L. s.]

Witnesses:

JAMES M. WHATLEY,
J. M. BARRON.