

A. C. LUDLUM.
HANDLE FOR DRILL RODS.
APPLICATION FILED AUG. 31, 1910.

984,828.

Patented Feb. 21, 1911.

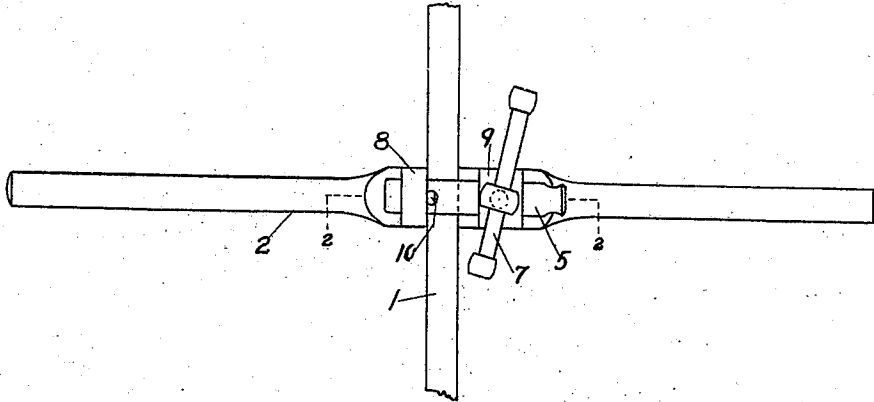


FIG. 1.

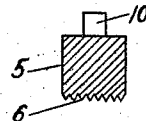


FIG. 3.

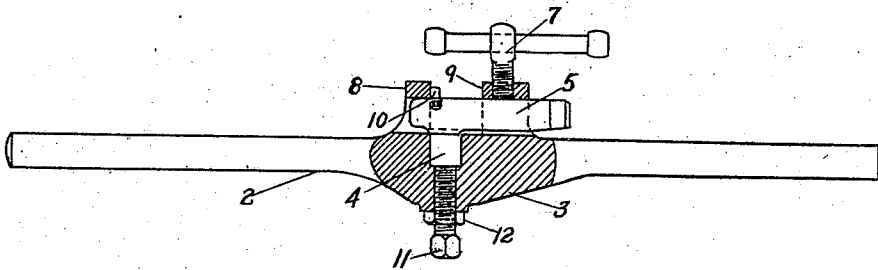


FIG. 2.

WITNESSES:

Fred J. Fiegel
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UNITED STATES PATENT OFFICE.

ALBERT C. LUDLUM, OF NEW YORK, N. Y., ASSIGNOR TO NEW YORK ENGINEERING COMPANY, A CORPORATION OF NEW YORK.

HANDLE FOR DRILL-RODS.

984,828.

Specification of Letters Patent.

Patented Feb. 21, 1911.

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To all whom it may concern:

Be it known that I, ALBERT C. LUDLUM, a citizen of the United States, and a resident of the borough of Manhattan, city, county, and State of New York, have invented an Improved Handle for Drill-Rods, of which the following is a specification.

This invention relates to an improved handle for drill rods adapted for use in the up and down working of the drill rod. Its purpose is to provide a reliable and efficient implement which may be readily adjusted in and detached from position and which may be secured in place with great firmness. The invention consists of the features hereinafter pointed out and set forth in the claims.

In the accompanying drawing forming part of this specification and in which like reference numerals designate corresponding parts in the several views, the invention is shown in its preferred form.

Figure 1 is a side view of the handle attached to the drill rod. Fig. 2 is a side elevation of the handle, partly in section on the line 2—2 of Fig. 1. Fig. 3 is a cross section of the gripping jaw.

Referring now more particularly to the device as shown in the drawing, 1 is the upper end of the drill rod to which the handle is attached. The handle rod 2 has a thickened central portion 3 in which is formed a recess 4 open on one side.

5 is a gripping jaw movable into and out of gripping position across the recess and provided with serrations or teeth to bite into the side of the drill rod. A fulcrum for one end of the jaw 5 is provided on the central portion 3 at one side of the recess 4 and a jam screw 7 is carried by the central portion 3 on the other side of the recess 4 to work against the other end of the gripping jaw and to force it securely against the drill rod. In the preferred arrangement of the gripping jaw it is made to slide back and forth across the recess 3 in keepers 8 and 9, the jam screw working through the keeper 9 against one end of the jaw and the keeper 8 at such time acting as a fulcrum for the other end of the jaw. The jaw carries a pin 10 to act as a stop in its sliding movement, the pin working between the keepers.

Entering the bottom of the recess is a set screw 11 provided with a check nut 12. By

adjusting this screw the effective depth of the recess may be varied to suit changing conditions.

It is to be noted that the serrations or teeth 6 protrude slightly beyond the inner face of the jaw 5. This allows the necessary play for the jaw toward and from the drill rod in the recess 3.

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

1. A handle for drill rods comprising a handle rod provided with a recess to receive the drill rod and open on one side, a gripping jaw movable into and out of gripping position across said recess, a fulcrum at one side of said recess for one end of the gripping jaw, and a pressure device at the other side of said recess to work against the other end of the gripping jaw.

2. A handle for drill rods comprising a handle rod provided with a recess to receive the drill rod and open on one side, a gripping jaw movable into and out of gripping position across said recess, a fulcrum at one side of said recess for one end of the gripping jaw, a pressure device at the other side of said recess to work against the other end of the gripping jaw, and a set screw entering said recess at the bottom.

3. A handle for drill rods comprising a handle rod provided with a central recess to receive the drill rod and open on one side, a gripping jaw adapted to slide into and out of gripping position across said recess, keepers on either side of the recess for the gripping jaw one of which acts as a fulcrum for said jaw, and a jam screw working through the other keeper against one end of said jaw.

4. A handle for drill rods comprising a handle rod provided with a central recess to receive the drill rod and open on one side, a gripping jaw adapted to slide into and out of gripping position across said recess, keepers on either side of the recess for the gripping jaw one of which acts as a fulcrum for said jaw, a jam screw working through the other keeper against one end of said jaw, and a set screw entering said recess at the bottom.

5. A handle for drill rods comprising a handle rod provided with a central recess to receive the drill rod and open on one side, a gripping jaw adapted to slide into and out of gripping position across said recess, keep-

ers on either side of the recess for the gripping jaw one of which acts as a fulcrum for said jaw, a jam screw working through the other keeper against one end of said jaw, a
5 set screw entering said recess at the bottom, and a stop on said jaw working between said keepers.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

A. C. LUDLUM.

Witnesses:

ANNA CAREY DILLS,
CHAS. W. DRAKE.