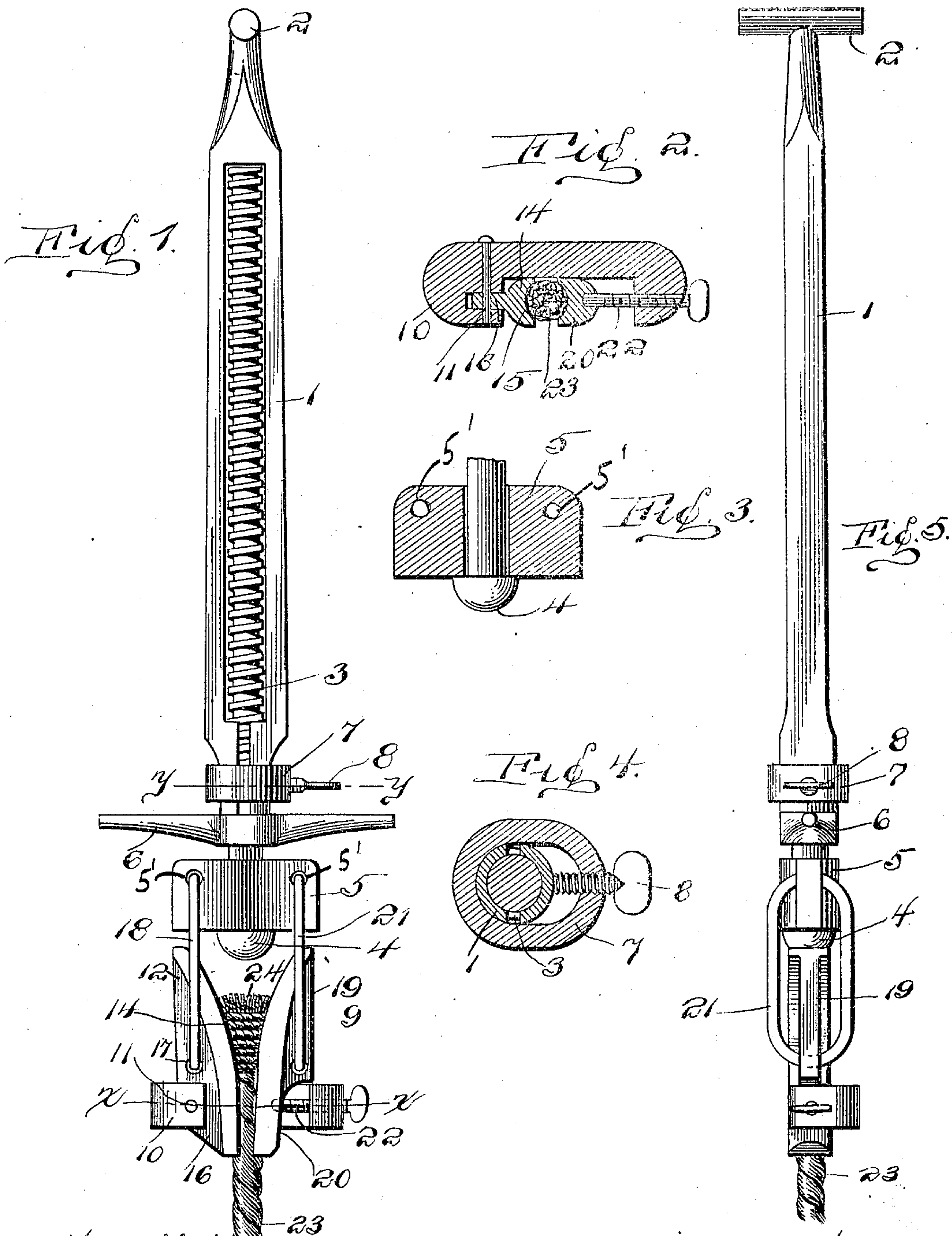


No. 837,142.

PATENTED NOV. 27, 1906.

M. SPEARBECK.
ROPE CLAMP.

APPLICATION FILED MAR. 9, 1906.



Witnesses
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UNITED STATES PATENT OFFICE.

MADISON SPEARBECK, OF PINE GROVE, WEST VIRGINIA.

ROPE-CLAMP.

No. 837,142.

Specification of Letters Patent.

Patented Nov. 27, 1906.

Application filed March 9, 1906. Serial No. 305,133.

To all whom it may concern:

Be it known that I, MADISON SPEARBECK, a citizen of the United States of America, residing at Pine Grove, in the county of Wetzel and State of West Virginia, have invented certain new and useful Improvements in Rope-Clamps, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in rope-clamps; and the invention relates more particularly to a rope-clamp adapted to be used in connection with the temper-screw of a well-drilling machine.

My invention aims to provide positive and reliable means in connection with a temper-screw for clamping and gripping the end of a section of rope, the rope commonly being the drilling-rope, raised and lowered by a walking-beam through the medium of a temper-screw. In this connection my improved clamp is constructed to firmly grip the end of a rope or cable and is secured to the temper-screw, whereby the downward pressure exerted upon the cable or rope by the drilling-tools will tend to tighten the clamp upon the end of the rope and prevent it from slipping or becoming detached.

With the above and other objects in view the invention consists in the novel construction, combination, and arrangement of parts to be hereinafter more fully described and claimed, and, referring to the drawings accompanying this application, like numerals of reference designate corresponding parts throughout the several views, in which—

Figure 1 is a front elevation of my improved rope-clamp, illustrating the same clamping the upper end of a cable or rope and supported from a temper-screw. Fig. 2 is a cross-sectional view taken on the line *xx* of Fig. 1. Fig. 3 is a detail section view of a swivel-head of the temper-screw, showing the manner in which I support the block which carries the clamping-shoes. Fig. 4 is a cross-sectional view taken on the line *yy* of Fig. 1 and shows the means by which the split end of the stirrup is held in engagement with the screw-threaded member 3; and Fig. 5 is a side elevation of my improved clamp, illustrating the same supported by a temper-screw.

In the accompanying drawings, I have illustrated a conventional form of temper-screw consisting of a stirrup 1, having a T-shaped head 2 which is secured to the walk-

ing-beam (not shown) of a well-drilling machine. In the stirrup 1 is mounted a screw 3, carrying a head 4, upon which is revolubly mounted a block 5, said block being provided with holes 5'. The screw 3 is provided with a handle 6, rigidly connected thereto, whereby it may be easily rotated, and the stirrup 1 is provided with the sleeve 7, carrying a set-screw 8, by which the lower end of the stirrup is held in engagement with the screw 3.

My invention resides in a rope or cable clamp 9, suspended from the block 5. The clamp consists of a C-shaped member 10, in the one end of which is pivotally mounted, as at 11, a clamping block or shoe 12. The clamping block or shoe 12 consists of a curved body portion 14, having a groove 15 formed therein. The body portion 14 is provided with a rearwardly-extending flange 16, having a central opening 17 formed therein, by which said block or shoe is connected to the block 5 by a link 18.

In conjunction with the block or shoe 12 I employ another block or shoe 19, said shoe being similar in construction to the shoe 12, with the exception that the lower portion thereof is cut away, as at 20. The shoe 19 is suspended by a link 21 from the block 5, and engaging the lower end of the shoe is a set-screw 22, which is adjustably mounted in the one end of the member 10.

In Figs. 1, 2, and 5 of the drawings I have illustrated the end of a drilling cable or rope 23 as mounted between the blocks or shoes 12 and 19. It will be observed that the upper end of the cable or rope is wrapped, as at 24, to prevent the end of the cable or rope from unraveling, also providing means for preventing the cable or rope from slipping from between the blocks or shoes 12 and 19. In practice the shoe 19 is moved into engagement with the upper end of the cable or rope 23 and the set-screw 22 rotated until the shoe 19 is firmly clamped upon the rope 23. The clamping of the shoes 12 and 19 together binds the wrapping 24 upon the upper end of the cable or rope and prevents the cable or rope from becoming unraveled, also slipping from my improved clamp. When drilling-tools are suspended upon the cable or rope 23, considerable pressure will be brought to bear upon the shoes 12 and 19, this pressure simply tending to more firmly bind the shoes together and preserve the natural state of the rope or cable 23. By pivotally connecting the blocks or shoes 12 and 19 to the block 5

in the manner shown a downward pressure upon the rope or cable 23 will tend to force the upper ends of the blocks or shoes 12 and 19 inwardly, thereby more firmly gripping the rope or cable 23 than if the upper ends of the blocks or shoes 12 and 19 were connected to the swivel-block 5.

The simple, strong, and durable construction illustrated in connection with my improved clamp permits of the same being manufactured at a comparatively small expense, and such changes in the construction and operation of my improved clamp as are permissible by the appended claim may be resorted to without departing from the spirit and scope of the invention.

What I claim, and desire to secure by Letters Patent, is—

In a rope-clamp, the combination with a temper-screw, of a C-shaped member provided with recesses disposed in the same hori-

zontal plane, a shoe having a curved body portion, a flange on said shoe, said flange extending within one of said recesses, and forming means whereby said shoe is pivotally mounted in said C-shaped member, a second shoe, means carried by the C-shaped member for adjusting said shoe within the other of said recesses, and means for suspending said shoes from the temper-screw comprising a block, and links, said links being connected to said block at points above its longitudinal center line, and said links being connected to said shoes at points below the middle of the shoes.

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

MADISON SPEARBECK.

Witnesses:

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M. E. WHITE.