Jan. 19, 1926. 1,570,116

M. F. YOUNT

LINE GUIDE

Filed June 11, 1925

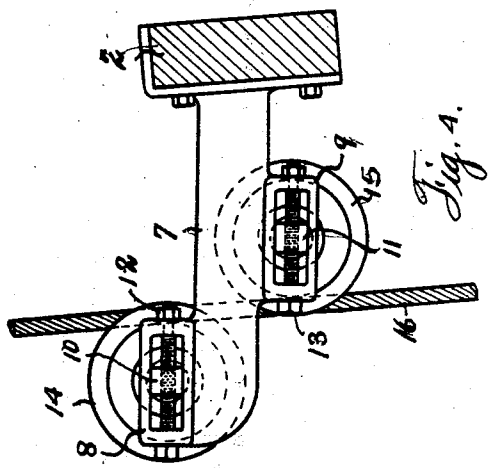


Fig. 4.

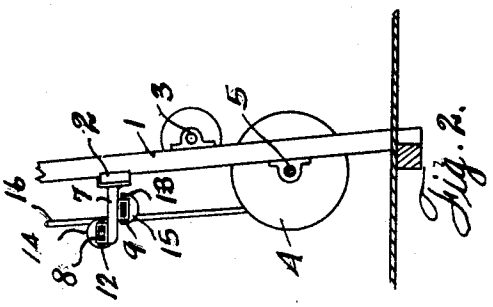


Fig. 2.

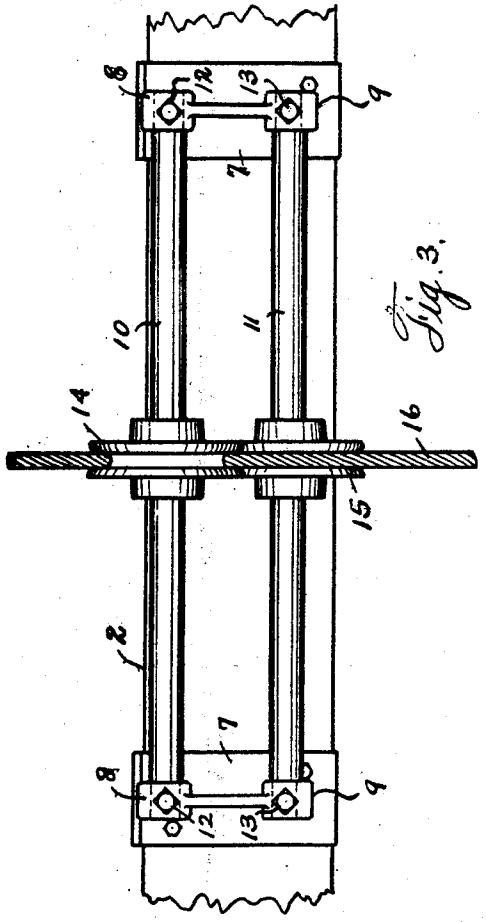


Fig. 3.

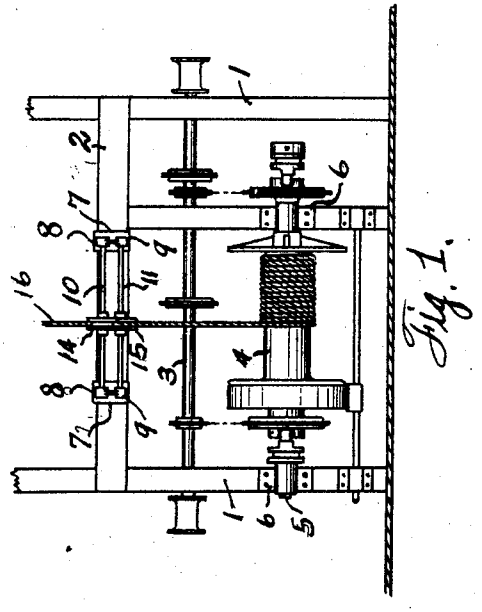


Fig. 1.

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UNITED STATES PATENT OFFICE.

MILES F. YOUNT, OF BEAUMONT, TEXAS.

LINE GUIDE.

Application filed June 11, 1925. Serial No. 36,427.

To all whom it may concern:

Be it known that I, MILES F. YOUNT, a citizen of the United States, residing at Beaumont, in the county of Jefferson and State of Texas, have invented certain new and useful Improvements in a Line Guide, of which the following is a specification.

This invention relates to new and useful improvements in a line guide.

One object of the invention is to provide a line guide for draw works designed to guide the cable, or line on to the cable operating drum of the draw works in such manner that the cable will be uniformly wound, or spooled, onto the drum, without its turns becoming crossed and thereby injured.

Another object of the invention is to provide a line guide for a draw works which will steady the line as it is wound onto or unwound from, the drum and which thus prevents the side swinging, or side slap, of the line, or cable.

A further feature of the invention resides in the provision of a device of the character described, embodying guide sheaves, or pulleys, forming guides on opposite sides of the cable, and which may be adjusted toward and from the cable, as circumstances may require.

With the above and other objects in view this invention has particular relation to certain novel features of construction, operation and arrangement of parts, an example of which is given in this specification and illustrated in the accompanying drawings, wherein:—

Figure 1 shows a front elevation of a complete draw works, showing the line guide applied thereto.

Figure 2 shows an end view thereof.

Figure 3 shows a front elevation of the line guide, and

Figure 4 shows an end view thereof.

Referring now more particularly to the drawings, wherein like numerals of reference designate similiar parts in each of the figures, the numerals 1, 1, designate the side supports of the draw works, which are connected by the head board 2. The numeral 3 designates the line shaft from which the hoisting drum 4 is operated. This drum is fixed on the shaft 5, which is rotatably mounted in the shaft bearings 6, 6, one of which is carried by one of the side supports 1 and the other of which is carried by the upright 7. The drum shaft is driven from the line shaft 3, and is clutched therewith and declutched therefrom in conventional manner.

Fastened to the headboard 2 are the outwardly extending spaced castings 7, 7, the free ends of which have the oblong bearings 8, 8, at their upper sides, and the under sides of the castings have the oblong bearings 9, 9 arranged between the end bearings and the head board.

There are bearing rods 10 and 11 having square ends adapted to slide in the respective bearings 8 and 9. The ends of these rods have tapped holes to receive the outwardly threaded adjusting screws 12, 12 and 13, 13 respectively. These screws are journaled in the ends of the respective bearings 8 and 9, and are turnable therein.

Slidably mounted on the respective rods 10 and 11 are the sheaves 14 and 15 which are grooved, to receive the hoisting line 16. This line is employed in well drilling operations for handling loads of various characters and is operated through the drum 4. The line passes between, and works in the grooves of, the sheaves 14 and 15, and these sheaves move back and forth on the rods 10 and 11, as the line is spooled on the drum, from end to end thereof. The sheaves steady the line and prevent the side movements, or "slapping" thereof and insure its even and uniform winding on the drum.

The sheaves may be adjusted, as circumstances may require, by applying a wrench to the heads of, and turning, the screws 12 and 13.

What I claim is:—

1. A line guide including a pair of bearing members spaced apart, an oblong bearing at the free end of each bearing member and an oblong bearing intermediate the ends of each bearing member, bearing rods whose ends are adjustably mounted in the respective bearings a rotatable guide mounted on each rod, each guide being movable lengthwise with respect to its rods.

2. A line guide including a pair of bearing members spaced apart, each bearing member having a pair of oblong bearings, a pair of bearing rods substantially parallel, the ends of said rods being mounted in the corresponding oblong bearings, means for adjusting one of said rods in its bearing, a rotatable guide mounted on each rod, each

guide being movable lengthwise with respect to its rod.

3. A line guide including a pair of bearing members spaced apart, each bearing member having a pair of bearing rods arranged substantially parallel and whose ends are mounted in said respective bearings, one of said rods being adjustable in its bearings, a rotatable guide mounted on each rod, each guide being movable lengthwise with respect to its rod.

In testimony whereof I have signed my name to this specification.

MILES F. YOUNT.