May 24, 1927. 1,629,644

A. J. SPEIRS

REEL JACK

Filed May 15, 1926

Fig. 1.

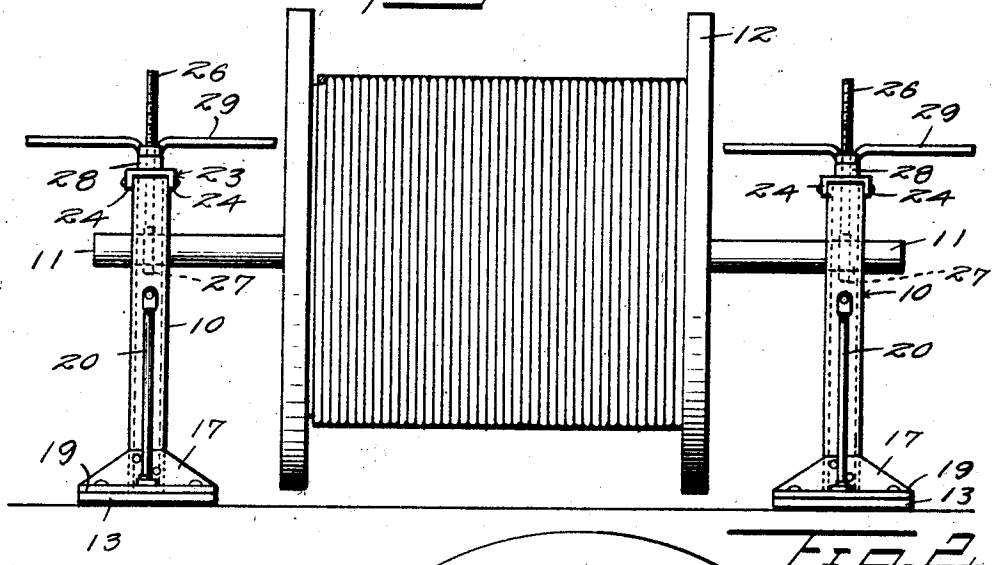


Fig. 2.

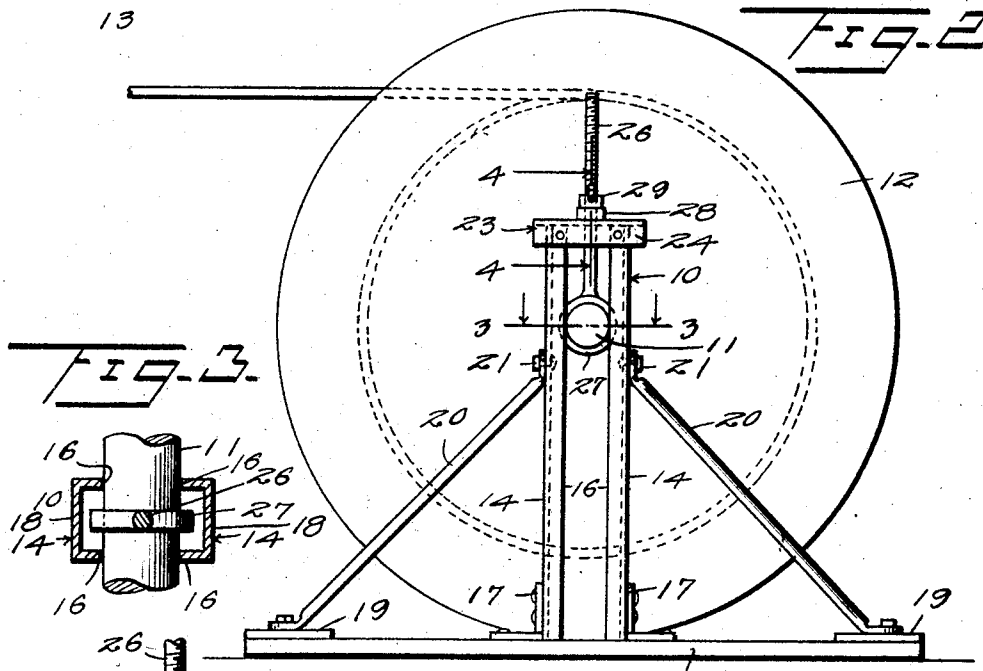


Fig. 3.

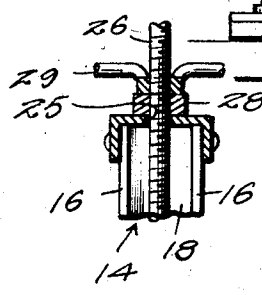


Fig. 4.

Inventor

A. J. Speirs

By Watson E. Coleman

Attorney

Patented May 24, 1927. 1,629,644

UNITED STATES PATENT OFFICE.

ANDREW J. SPEIRS, OF JENKS, OKLAHOMA.

REEL JACK.

Application filed May 15, 1926. Serial No. 109,423.

This invention relates to a reel jack and more particularly to a jack for the wire line spools employed in well drilling apparatus.

An important object of the invention is to produce a device of this character which may be very readily and cheaply produced and which, at the same time, will have sufficient strength to enable it to withstand the harsh treatment to which such devices are subjected.

A further object of the invention is to provide a device which is adjustable, so that wire line spools of different sizes may be readily supported thereby.

These and other objects I attain by the construction shown in the accompanying drawings, wherein for the purpose of illustration is shown a preferred embodiment of my invention and wherein:—

Figure 1 is a front elevation of a wire line spool jack constructed in accordance with my invention showing a wire line spool in position thereon;

Figure 2 is a side elevation thereof;

Figure 3 is an enlarged section on the line 3—3 of Figure 2;

Figure 4 is a section on the line 4—4 of Figure 2.

Referring now more particularly to the drawings, the numeral 10 generally designates standards, two of which are provided to afford mountings for the opposite ends of a shaft 11 from which the spool 12 is supported. Each standard comprises a base 13 preferably formed from plank from the center of which projects upwardly a pair of channel irons 14 having the channels 15 thereof opposed. The adjacent faces of the flanges 16 of the channel irons are spaced apart a distance equal to the diameter of the shaft 11 which is to be employed. The lower ends of these channel irons are secured to the standard by means of angle brackets 17, one angle of which is bolted to the bight 18 of the associated channel iron and the other angle of which is bolted to the base 13. At opposite ends of the base, metallic sill plates 19 are provided from which extend upwardly converging braces 20, the upper ends of which are bolted to the bights of the channels at 21. These braces are preferably formed from pieces of pipe, the ends 22 of which are flattened and bent at an angle to provide bolting faces.

The upper ends of the channel bars are capped by a short length of channel bar 23, the channel of which is of the same internal width as the external width of the channel bars 14 and the flanges 24 of which are bolted to the flanges 16 of the channel bars 14. This cap is provided with a central opening 25 for the passage of the stem 26 of an eye bolt 27, the eye of which receives the shaft 11. Seated upon the upper surface of each cap in surrounding relation to the opening thereof is a thrust bearing 28 against the upper surface of which bears the wing nut 29 having threaded engagement with the shank of the eye bolt 27 to provide a means for vertically adjusting the same.

It will be obvious that a device of this character may be very readily and cheaply produced and because of the rigid structure thereof, will be very durable and efficient in service.

Since the construction hereinbefore set forth is obviously capable of a certain range of change and modification without materially departing from the spirit of the invention, I do not limit myself to such specific structure except as hereinafter claimed.

I claim:—

A wire line spool jack comprising a spool receiving shaft and standards for supporting the opposite ends of the shaft each comprising a base, a pair of parallel channel irons arising from the base having their channels opposed and the free edges of their flanges spaced apart a distance equal to the diameter of the shaft, a cap for the upper end of the channel irons having an opening formed therein, an eye bolt having the eye thereof extending into the channels of the channel irons and the shank thereof directed through the opening of said cap and a wing nut operatively engaged with the cap and threaded upon the shank of the eye bolt.

In testimony whereof I hereunto affix my signature.

ANDREW J. SPEIRS.