No. 813,913. PATENTED FEB. 27, 1906.

J. REID.

SUPPORT FOR POWER CARRYING LINES.

APPLICATION FILED FEB. 17, 1905.

2 SHEETS—SHEET 1.

Fig. 1.

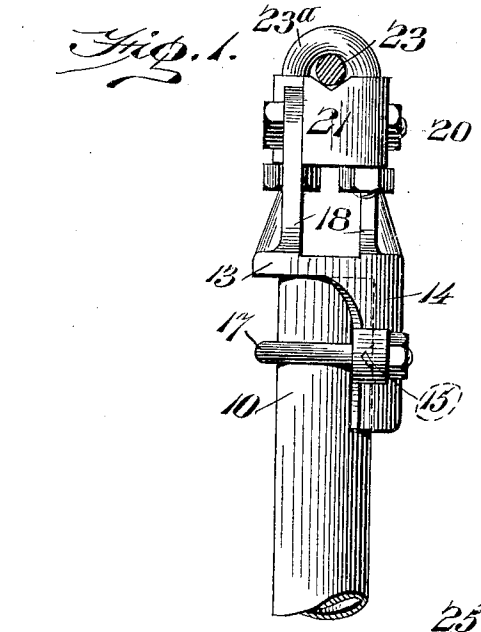


Fig. 2.

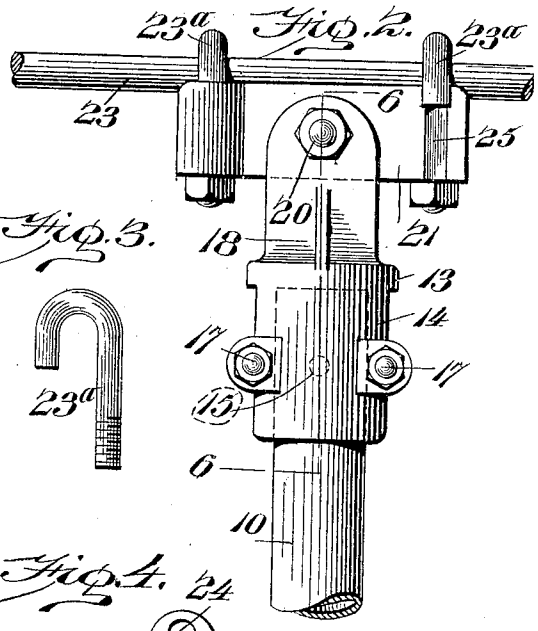


Fig. 3.

Fig. 4.

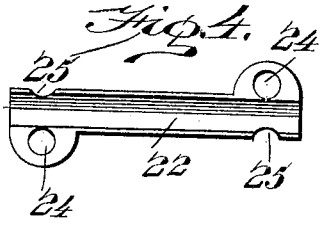
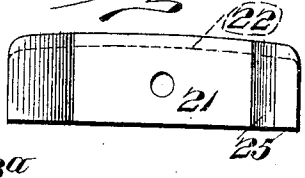
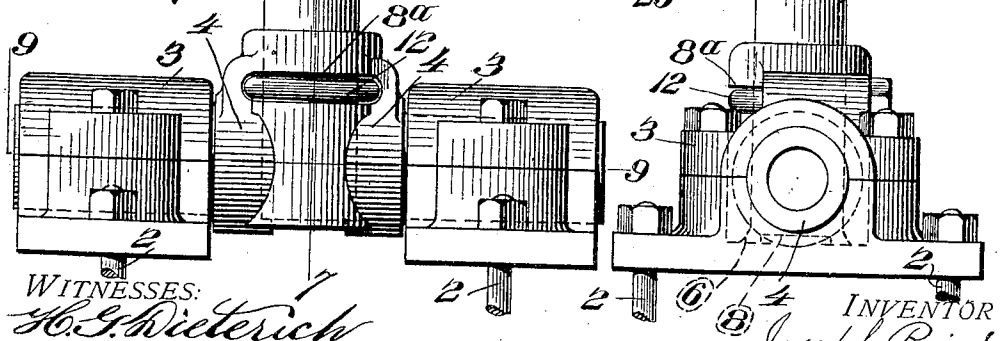


Fig. 5.





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2 SHEETS—SHEET 2.

Fig. 10.

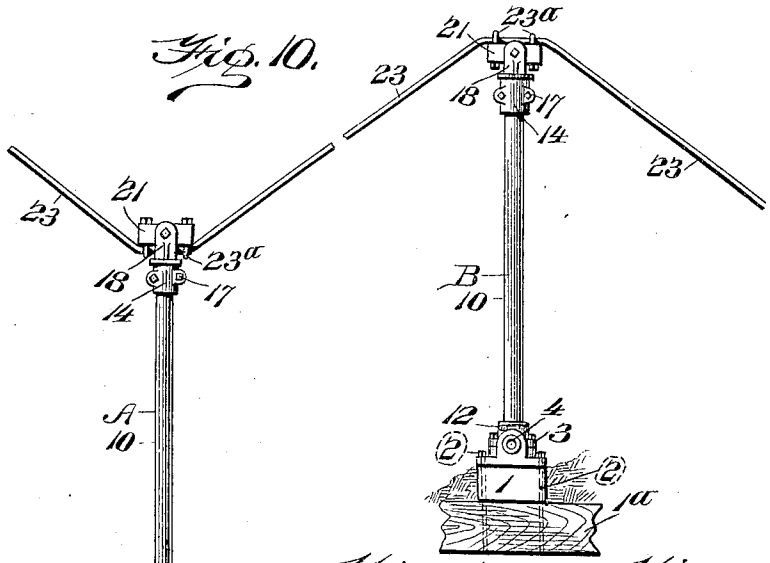


Fig. 7.

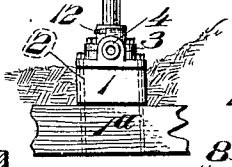


Fig. 8.

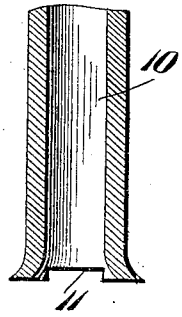
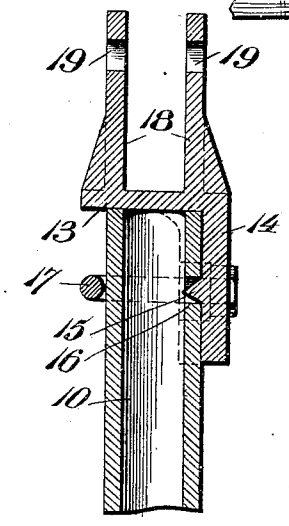


Fig. 6.



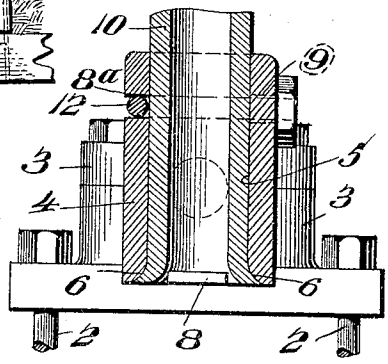
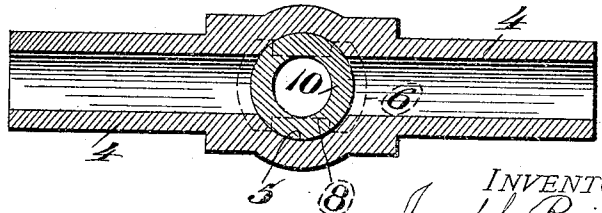


Fig. 9.



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UNITED STATES PATENT OFFICE.

JOSEPH REID, OF OIL CITY, PENNSYLVANIA.

SUPPORT FOR POWER-CARRYING LINES.

No. 813,913. Specification of Letters Patent. Patented Feb. 27, 1906.

Application filed February 17, 1905. Serial No. 246,105.

To all whom it may concern:

Be it known that I, JOSEPH REID, a citizen of the United States, and a resident of Oil City, in the county of Venango and State of Pennsylvania, have invented certain new and useful Improvements in Supports for Power-Carrying Lines, of which the following is a specification.

This invention relates to supports for power-carrying lines.

In the pumping of oil-wells power-carrying lines, such as ropes or iron rods, lead in numerous directions from a suitable source of power to the oil-wells. Owing to the hilly nature of the country in which oil-wells are usually found it is necessary to install supports or carriers for the lines to hold up the line when passing over a ridge or hill and to hold down the line when passing to a hollow.

An object of the present invention is to provide an improved support which will either hold up or hold down a power-carrying line.

A further object is to provide an improved support that may be cheaply manufactured, will insure durability, and will cause a more accurate alinement.

In the drawings, Figure 1 is a front elevation of the support. Fig. 2 is a side view of the support. Fig. 3, 4, and 5 are detail views of the pivoted line-clamp. Figs. 6 and 7 are transverse vertical sections of the upper and the lower ends of the swinging upright on the lines 6 6 and 7 7, respectively. Fig. 8 is a detail vertical section of the lower end of the upright. Fig. 9 is a horizontal section of the lower end of the upright on the line 9 9, Fig. 1. Fig. 10 is a view showing the support used as a "hold-up" and a "hold-down."

Referring more particularly to the drawings, 1 indicates a block supported on a timber or deadman 1^a, in which are anchored bolts 2, by which the support is held in position, the bolts passing through openings in a pair of journal-boxes 3. Connecting and journaled in a pair of journal-boxes 3 is a trunnion-casting 4, provided with an opening 5, the lower wall of which is flared at two opposite points 6 and is provided at two other opposite points 7 with inwardly-extending lugs 8. The casting 4 is also provided with a slot 8^a and bolt-openings 9 on opposite sides of and leading into the opening 5.

Into the opening 5 is fitted the lower end of a tubular upright 10, the extreme end being notched at two opposite points, as at 11, and resting on the lugs 8, and between said notches the upright is flared into contact with the flared portions 6 of the casting 4. A U-shaped bolt or staple 12 is fitted through slot 8^a and openings 9 and engages upright 10 to hold the same against lateral movement within the opening 5.

A bearing-casting 13 is seated upon the upper end of the upright 10 and is provided with a depending portion 14, having a lateral lug 15, which fits into a recess 16 in the side of the upright 10. The casting 13 is held to the end of the upright by means of a U-shaped staple or bolt 17, which surrounds the upright and passes at its ends through openings in the depending portion 14. The casting has a pair of parallel and upwardly-extending ears 18 provided with alined openings 19, through which is passed a bolt 20, that serves as a pivot for the clamp 21. This clamp 21 fits between the ears 18 and is curved on its upper surface on a radius having for its center the trunnions of the upright. The clamp has a longitudinal groove 22 for the reception of the carrying-line 23, and the carrying-line is held in the channel by means of two bolts of J shape 23^a, arranged at their longer ends in openings 24 at opposite sides of the channel 22 and their shorter ends fitting in grooves 25 on the opposite sides of the channel.

When the device is used as a hold-down, as shown at A, Fig. 10, the clamp 21 is reversed. In this instance the flared end of the upright prevents the upright from being separated from the trunnion-casting 4 and the projection or lug 15 prevents the separation of the casting 13 from the upright 10. When the device is employed for a hold-up, the clamp is turned to the position shown at B, Fig. 10. In this instance the lugs 8 within the opening 5 prevent the upright moving downwardly relatively to casting 4.

Having thus described my invention, what I claim is—

1. In a carrying-line support, a line-clamp having a longitudinal channel, a pair of openings on opposite sides and near opposite ends of the channel, and grooves on the opposite sides of the channel; and J-shaped bolts fitted in the openings at one of their ends and extending into the grooves at the other of their ends.

2. In a carrying-line support, an upright

provided with a recess, and a casting having a lug fitting in said recess.

3. In a carrying-line support, an upright having a recess, a casting having a lug fitting into said recess, and a U-shaped bolt surrounding the upright and secured to the casting.

4. In a carrying-line support, a swinging upright having a recess near its upper end; a bearing-casting having a pair of upwardly-extending ears; and a depending portion carrying a lateral lug for fitting in the recess in the upright; a U-shaped bolt surrounding the upright and secured to the casting; and a line-clamp pivoted between the ears of the casting.

5. In a carrying-line support, a trunnion-casting having an opening flared at its lower end, and a tubular upright fitted within the opening and flared.

6. In a carrying-line support, a trunnion-casting having an opening and a slot leading to the opening; an upright fitted within the opening; and a U-shaped bolt fitted into the slot to engage the upright and secured at its ends to the casting.

7. In a carrying-line support, a trunnion-casting having an opening therein, and lugs within the opening, and an upright resting on the lugs.

8. In a carrying-line support, a trunnion-casting having an opening flared at its lower end and lugs therein, and a tubular upright resting on the lugs and flared.

9. In a carrying-line support, a trunnion-casting having an opening flared at two opposite points, and lugs located between the flared portions; and a tubular upright fitting in the opening, notched at two opposite points and flared between the notched portions.

The foregoing specification signed at Washington, District of Columbia, this 1st day of February, 1905.

JOSEPH REID.

In presence of—
HERVEY S. KNIGHT,
EDWIN S. CLARKSON.