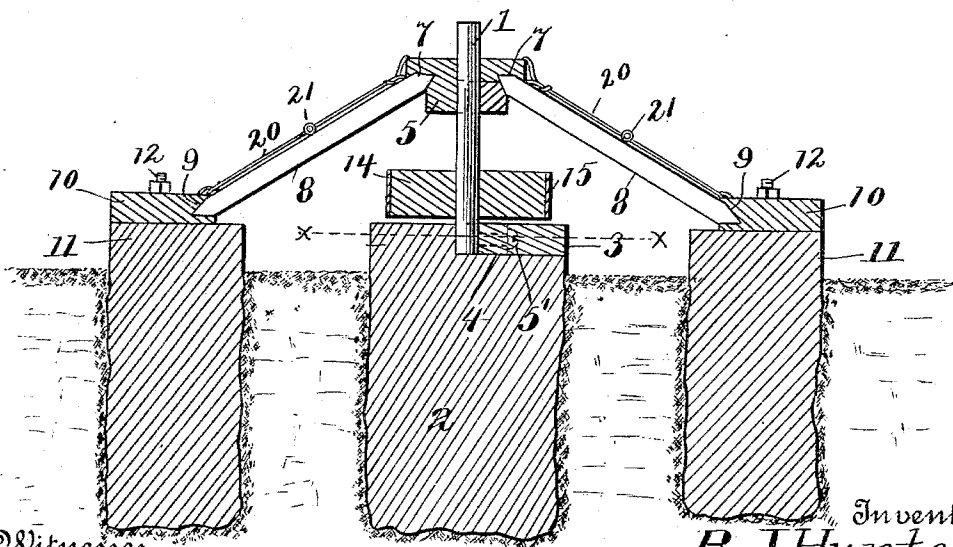
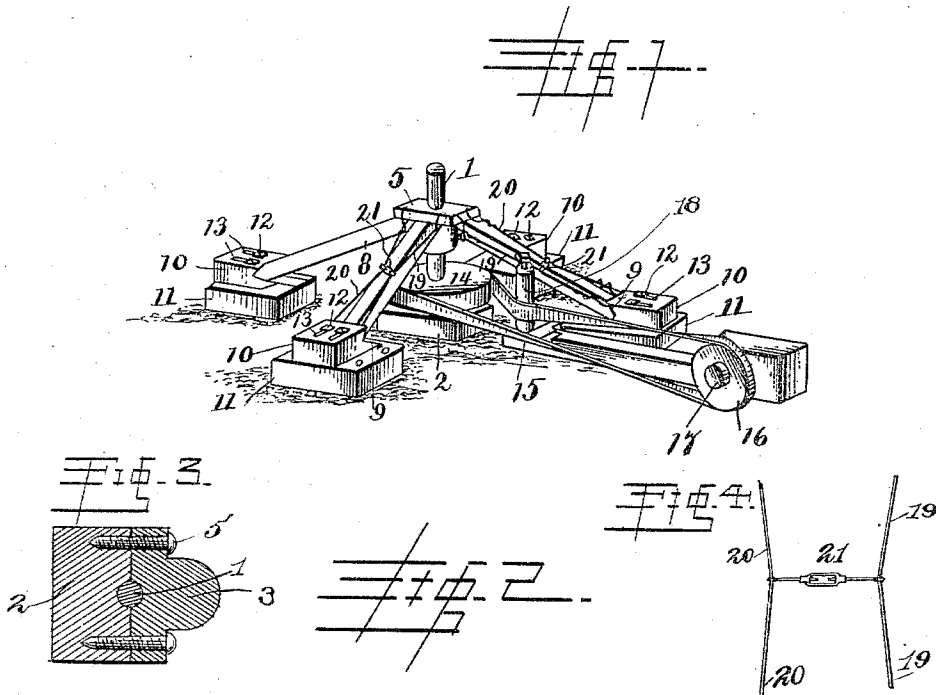


(No Model.)

R. J. HUNTER.
POWER FRAME FOR PUMPS.

No. 602,849.

Patented Apr. 26, 1898.



Witnesses
W. E. Bowen
J. A. Wilson

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UNITED STATES PATENT OFFICE.

RICHARD J. HUNTER, OF GOODWILL HILL, PENNSYLVANIA.

POWER-FRAME FOR PUMPS.

SPECIFICATION forming part of Letters Patent No. 602,849, dated April 26, 1898.

Application filed August 5, 1897. Serial No. 647,234. (No model.)

To all whom it may concern:

Be it known that I, RICHARD J. HUNTER, a citizen of the United States, residing at Goodwill Hill, in the county of Warren and State of Pennsylvania, have invented certain new and useful Improvements in Power-Frames for Oil-Well Pumps; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to a novel form of frame for oil-well pumps; and the object is to provide a simple, durable, and effective frame of this class.

To this end the invention consists in the construction, combination, and arrangement of the several parts of the device, as will be hereinafter more fully described, and particularly pointed out in the claim.

In the accompanying drawings the same reference characters indicate the same parts of the invention.

Figure 1 is a perspective view of a power-frame embodying my invention. Fig. 2 is a transverse section of the same. Fig. 3 is a sectional view taken on the line $x x$ of Fig. 2. Fig. 4 is an enlarged section of the brace-rods, showing the turnbuckle.

1 represents the vertical power-shaft, having its lower end journaled in a bearing-box 2, which is rigidly fixed in the ground in any suitable manner. This bearing-box is provided with the horizontal cap 3, which is adjustably secured to the corresponding rigid cap 4 by means of suitable screws, one of which, 5', is shown in Fig. 2, and through this medium the bearing may be taken up to compensate for wear on the shaft 1.

5 represents a bearing-box for the upper portion of the shaft 1, and it is arranged vertically above the box 2. This bearing-box is provided with four lateral sockets 7 7, which receive the inner ends of the diagonal brace-rods 8 8, the outer ends of which are V-shaped and are seated or have a bearing in the correspondingly-formed recesses 9 9 in the shoes 10 10, which are adjustably secured to the foundation-stones 11 11, firmly fixed in the ground by means of the vertical bolts 12 12, which pass through the longitudinal slots 13 13 in the shoes 10. By means of these diag-

onal braces it will be seen that the shaft 1 is rigidly supported against any lateral strain that may be imparted to it.

A band-wheel 14, horizontally mounted on the shaft 1, is connected by a belt 15 to the vertical pulley 16 on the horizontal engine-shaft 17, and to accomplish this a quarter-turn of the belt from a horizontal to a vertical position is required. Therefore a vertical idler 18 is placed in the path of the belt to give it the proper direction, as shown in Fig. 1.

19 and 20 represent parallel brace-rods which extend parallel with each diagonal brace from the bearing 5 to the shoe 10, and they are connected midway with a turnbuckle 21, by means of which any slack may be taken up and the brace-rods properly adjusted to conform to the diagonal brace which they support.

Instead of transmitting motion by means of the belt 15 I may employ a system of gearing, or an eccentric movement may be utilized to convey motion from one shaft to the other.

Although I have specifically described the construction and relative arrangement of the several elements of my invention, I do not desire to be confined to the same, as such changes or modifications may be made as clearly fall within the scope of my invention without departing from the spirit thereof.

Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent of the United States, is—

The combination with the vertical shaft 1, the lower bearing-box 2, and the upper bearing-box 5 provided with a series of sockets 7, of the adjustable shoes 10 10 provided with the V-shaped notches 9, the diagonal brace-rods 8 8 extending from said shoes to said bearing-box 5, and the parallel brace-rods 19 and 20, also connecting said bearing-boxes with said shoes, and each provided with a turnbuckle 21, substantially as shown and described.

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

RICHARD J. HUNTER.

Witnesses:

SAMUEL GRUMBINE,
E. H. WILLIAMS.