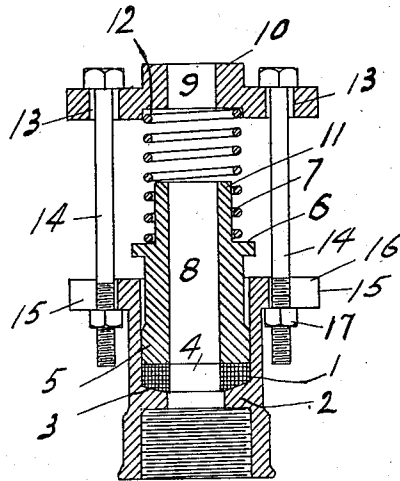


D. E. NORRIS.
STUFFING BOX.
APPLICATION FILED MAY 10, 1910.

1,015,582.

Patented Jan. 23, 1912.



Witnesses

Charles Lippold
Margaret M. Beigle

Inventor
David E. Norris
by *A. E. Lind*
Attorney

UNITED STATES PATENT OFFICE.

DANIEL E. NORRIS, OF ROBINSON, ILLINOIS.

STUFFING-BOX.

1,015,582.

Specification of Letters Patent.

Patented Jan. 23, 1912.

Application filed May 10, 1910. Serial No. 560,500.

To all whom it may concern:

Be it known that I, DANIEL E. NORRIS, a citizen of the United States, residing at Robinson, in the county of Crawford and State of Illinois, have invented new and useful Improvements in Stuffing-Boxes, of which the following is a specification.

This invention relates to stuffing boxes for polished rods for oil well pumps and the like, and consists in certain improvements in the construction thereof as will be hereinafter fully described and pointed out in the claim.

The invention is illustrated in the accompanying drawings as follows: 1 marks the body of the stuffing box. This has a shoulder 2 forming a packing cavity 3 above it. A packing 4 is arranged in the cavity, and the follower 5 is placed on the packing. The follower has the spring shoulder 6 above the top of the body on which rests a follower spring 7. The polished rods extend through the packing and through the opening 8 in the follower 5, and through an opening 9 in a yoke 10. The yoke is provided with the perforations 13. The bolts 14 are arranged in these perforations and extend through slots 15 in a flange 16 on the top of the body, and are secured by the nut 17. By means of these bolts the spring 7 may be put under tension, so as to give the proper pressure to the follower 5 to make effective the packing 4. Stuffing boxes of this character are subjected to severe usage, and the yoke 10 is often subjected to a downward pressure much in excess of the strength of the spring 7. This happens from falling derricks, and often from an

improper adjustment or breakage of the pumping apparatus above it. When this happens the spring is apt to be broken and the pieces give trouble. To prevent this undue pressure on the spring, the upward extension 1¹ is provided within the shoulder 6, the extension projecting upwardly within the spring 7. This extension is of sufficient length to extend through the spring 7, when the spring 7 is fully contracted. When, therefore, undue pressure is exerted on the yoke 10, the spring is contracted until the yoke 10 contacts the upper end of the shoulder 11. This point, however, is sufficiently high to prevent undue straining being put on the spring. I prefer to provide the recesses 12 in the yoke 10 for a seat for the spring.

What I claim as new is:

In a stuffing box for polished rods for oil wells and the like, the combination of a box body having a packing cavity; a follower in the cavity having an external shoulder thereon; an extension from the shoulder; a follower spring resting on the shoulder and arranged around the extension, the extension being of sufficient length to extend through the follower spring when the spring is fully contracted; a yoke for putting the spring under tension; and means for connecting the yoke to the box body.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

DANIEL E. NORRIS.

Witnesses:

J. C. MAXWELL,
F. H. NORRIS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."