

J. GRANT.
PACKING.

APPLICATION FILED MAY 2, 1908.

901,339.

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Fig. 1.

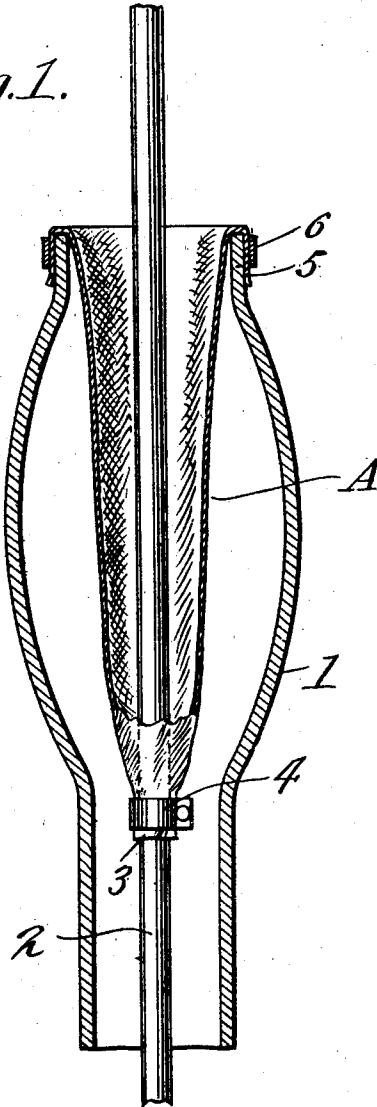
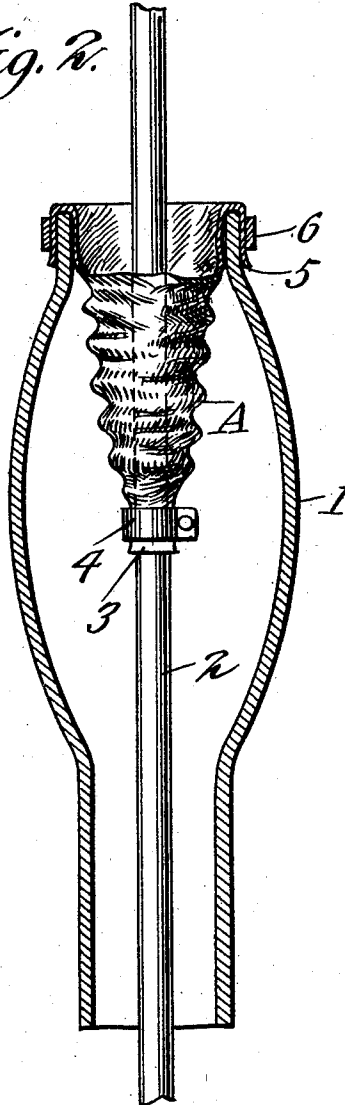


Fig. 2.



Witnesses
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To all whom it may concern:

Be it known that I, JACK GRANT, a citizen of the United States, residing at Forestburg, in the county of Montague and State of Texas, have invented new and useful Improvements in Packings, of which the following is a specification.

This invention relates to a packing intended primarily for use where a reciprocatory element passes into a chambered body, and is especially applicable for windmill or similar pumps wherein the rod is likely to have a lateral movement simultaneously with its longitudinal movement due to vibration and the like.

The invention has for one of its objects to provide a packing of comparatively simple and inexpensive construction, reliable in use, and composed of comparatively few parts.

Another object of the invention is the provision of a packing consisting of a conical flexible tube such as canvas, which has one end secured to the reciprocatory rod and the other end attached to the casing, whereby a perfect seal is provided which at the same time permits reciprocatory and lateral movement of the rod.

With these objects in view and others, as will appear as the description proceeds, the invention comprises the various novel features of construction and arrangement of parts which will be more fully described hereinafter and set forth with particularity in the claim appended hereto.

In the accompanying drawing, which illustrates one embodiment of the invention, Figure 1 is a longitudinal sectional view of the upper end of a pump casing having the packing applied to the pump rod of the casing, the rod being in its lowermost position. Fig. 2 is a similar view showing the rod in raised position.

Similar reference characters are employed to designate corresponding parts throughout the views.

Referring to the drawing, 1 designates a casing, such for instance, as the upper end of a windmill pump or the like and in which is arranged the reciprocatory-plunger rod 2, the rod extending through a pack-

ing A. This packing comprises a hollow conical body disposed within the casing 1 in inverted position, the said body being made of canvas or other flexible water-holding material. The lower end of the body A has a neck 3 which snugly fits the pump rod and is secured thereto by a split clamping ring 4 or other equivalent means and the upper end of the packing projects out of the casing and is turned downwardly to lap over the outside of the casing, and surrounding this forwardly-turned portion 5 is a band 6 that clamps the packing to the casing. The packing is of suitable length to permit the rod to have its normal movement without undue strain on the clamping devices 4 and 6, and when the rod is in its lowermost point, the packing assumes the position shown in Fig. 1, and when the rod is raised, the packing is collapsed like a bellows, as shown in Fig. 2. The packing forms a perfect seal so that water cannot escape out of the casing around the rod and at the same time the rod can have a limited lateral movement. The packing is so designed that it can be used in pumps already in use, it being merely necessary to move the packing-carrying cap of the casing and apply the present packing, as described.

From the foregoing description, taken in connection with the accompanying drawing, the advantages of the construction and of the method of operation will be readily apparent to those skilled in the art to which the invention appertains, and while I have described the principle of operation of the invention, together with the devices which I now consider to be the best embodiment thereof, I desire to have it understood that the device shown is merely illustrative, and that such changes may be made when desired as are within the scope of the appended claim.

Having thus described the invention, what I claim is:—

The combination of a casing, a reciprocatory rod extending longitudinally there-through, a flexible hollow packing within the casing tapering in one direction and having an opening at its smaller end to fit

the rod, a ring embracing the smaller end of the packing to clamp the same rigidly to the rod, said casing having an opening in which the larger end of the packing fits
5 and the said larger end being bent outwardly and backwardly on itself to embrace the outside of the casing adjacent the opening thereof, and a ring fitted around the

doubled-back part of the packing for clamping the latter to the casing.

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

JACK GRANT.

Witnesses:

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