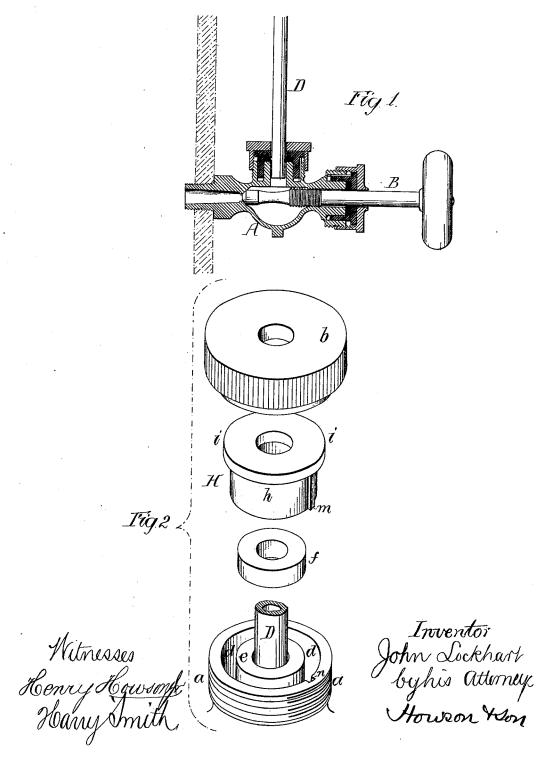
J. LOCKHART. STUFFING BOXES.

No. 195,829.

Patented Oct. 2, 1877.



UNITED STATES PATENT OFFICE.

JOHN LOCKHART, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN STUFFING-BOXES.

Specification forming part of Letters Patent No. 195,829, dated October 2, 1877; application filed August 22, 1877.

To all whom it may concern:

Be it known that I, John Lockhart, of Philadelphia, Pennsylvania, have invented a newand useful Improvement in Stuffing-Boxes, of which the following is a specification:

The object of my invention is to so construct a stuffing-box that the packing cannot be twisted and injured by the turning of the fol-

In the accompanying drawings, Figure 1 is a vertical section of my improved stuffing-box applied to a water-gage; and Fig. 2, perspective views of detached parts of the stuffing-box, drawn to an enlarged scale.

In Fig. 1, A is one of the valve-chests of a water-gage; B, the valve-spindle, and D a part of the glass tube fitted to the chest through the medium of my improved stuffingbox, which may be best explained by referring to Fig. 2.

The branch a of the valve-chest is threaded externally for receiving the screw-cap or follower b, and in this branch is formed an annular recess, d, leaving a central hub, e, through which the glass tube D passes freely.

A packing-ring, f, of rubber or other equivalent yielding material, is confined between the hub e and the intermediate follower H, the annular portion h of which fits snugly, but so as to slide freely, in the annular recess d, the flanged portion i being contained within the screw-cap or follower b.

There is a vertical slot, n, in the side of the annular recess d, and in this slot is arranged to fit snugly, but slide freely, a projection, m,

on the intermediate follower H, which is thus

prevented from turning.

When the several parts are fitted together and the cap b is screwed down tight, the packing-ring f will be compressed, and will consequently embrace the glass tube so tightly as to produce a perfectly-tight joint.

The objection to ordinary stuffing or packing boxes with screw-caps or followers is, that the packing is in direct contact with the follower, so that in the act of turning the latter there must be a tendency to twist the packing and impair its efficiency.

In my improvement, however, owing to the intermediate follower, which is incapable of turning, the packing, on turning the cap b, must be subjected to a direct pressure only.

A stuffing box similar to that described above is used in connection with the valvespindle B. The stuffing-box may, in fact, be used in connection with different objects, piston-rods, rotating shafts, &c.

I claim as my invention—

A stuffing-box in which an intermediate follower, made substantially as described, so as to be incapable of turning, is interposed between a screw-cap or follower and a packing, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN LOCKHART.

Witnesses:

HERMANN MOESSNER, HARRY SMITH.