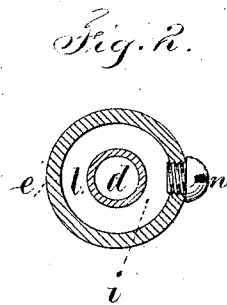
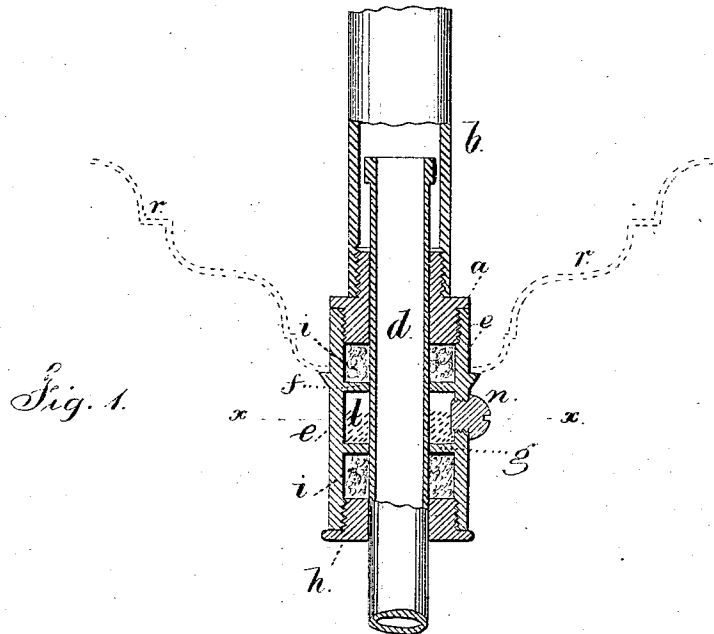


W. C. VOSBURGH & C. DAY.

Packing for Extension Gas-Fixtures.

No. 153,506.

Patented July 28, 1874.



Witnesses,

Chas. H. Smith
George Serrell

Inventors.

William C. Vosburgh
Cornelius Day
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Atty.

UNITED STATES PATENT OFFICE.

WILLIAM C. VOSBURGH AND CORNELIUS DAY, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN PACKINGS FOR EXTENSION GAS-FIXTURES.

Specification forming part of Letters Patent No. **153,506**, dated July 28, 1874; application filed May 15, 1874.

To all whom it may concern:

Be it known that we, WILLIAM C. VOSBURGH and CORNELIUS DAY, of Brooklyn, in the county of Kings and State of New York, have invented an Improvement in Packing for Extension Gas-Fixtures, of which the following is a specification:

The moving tube of an extension gas-fixture has usually been made to slide through a packing-gland at the lower end of a stationary tube; but the packing is liable to become injured, in consequence of the absence of lubricating material, and from the extension-tube being subject to a lateral movement or leverage that loosens the tube by compressing the packing; hence sometimes the extension-tube moves too easily, and slides down by its weight, or the gas escapes; or in other instances the packing produces too great friction from the lubricating material being exhausted.

Our present invention is made for increasing the durability of the packing-gland, and rendering the friction thereof more uniform.

We make use of a double packing-gland, and an intermediate receptacle for lubricating material. By this device the metal portions above and below the packings become guides to prevent the packing being injured by lateral pressure due to the leverage of the extension-tube, and the packings are relieved from strain and wear much longer, besides which the lubricating material supplied to each packing renders the same uniform in its action.

In the drawing, Figure 1 is a vertical section, and Fig. 2 is a sectional plan at the line *x x*.

The cap *a* is screwed or otherwise attached to the vertical pipe *b* of the gas-fixture, and

in this cap *a* is a central hole, through which the extension-tube *d* passes freely. The cylinder *e* is screwed upon this cap *a*, and contains two annular diaphragms, *f* and *g*, and at the bottom is the screw-cap *h*. The packings are introduced at *i i*, and between the diaphragms *f g* the space *l* is left for lubricating material.

It is generally best to remove the caps *a* and *h*, apply the packing of fibrous material, and screw on said caps *a* and *h* at the ends of the cylinder *e*, and then pour into the space *l* bees-wax and tallow or other lubricating material, and close the orifice by the screw-plug *n*, after which the double packing-glands, formed as aforesaid, may be screwed upon the pipe *b*, and covered more or less by the ornamental shell shown by dotted lines at *r*; but we do not limit ourselves to the order named in which the parts are put together.

We claim as our invention—

The cylinder *e*, having internal screw-threads at both ends, and the ring-diaphragms *f g* within it, inclosing the lubricating-chamber *l*, and with a screw-cap, *a*, at one end attached to the gas-pipe, and securing the elastic packing, and the cap *h* screwed into the other end, and retaining the second elastic packing, in combination with the plug *n* at one side of the lubricating-chamber, for the purposes and as set forth.

Signed by us this 13th day of May, A. D. 1874.

W. C. VOSBURGH.
CORNELIUS DAY.

Witnesses:

GEO. T. PINCKNEY,
CHAS. H. SMITH.