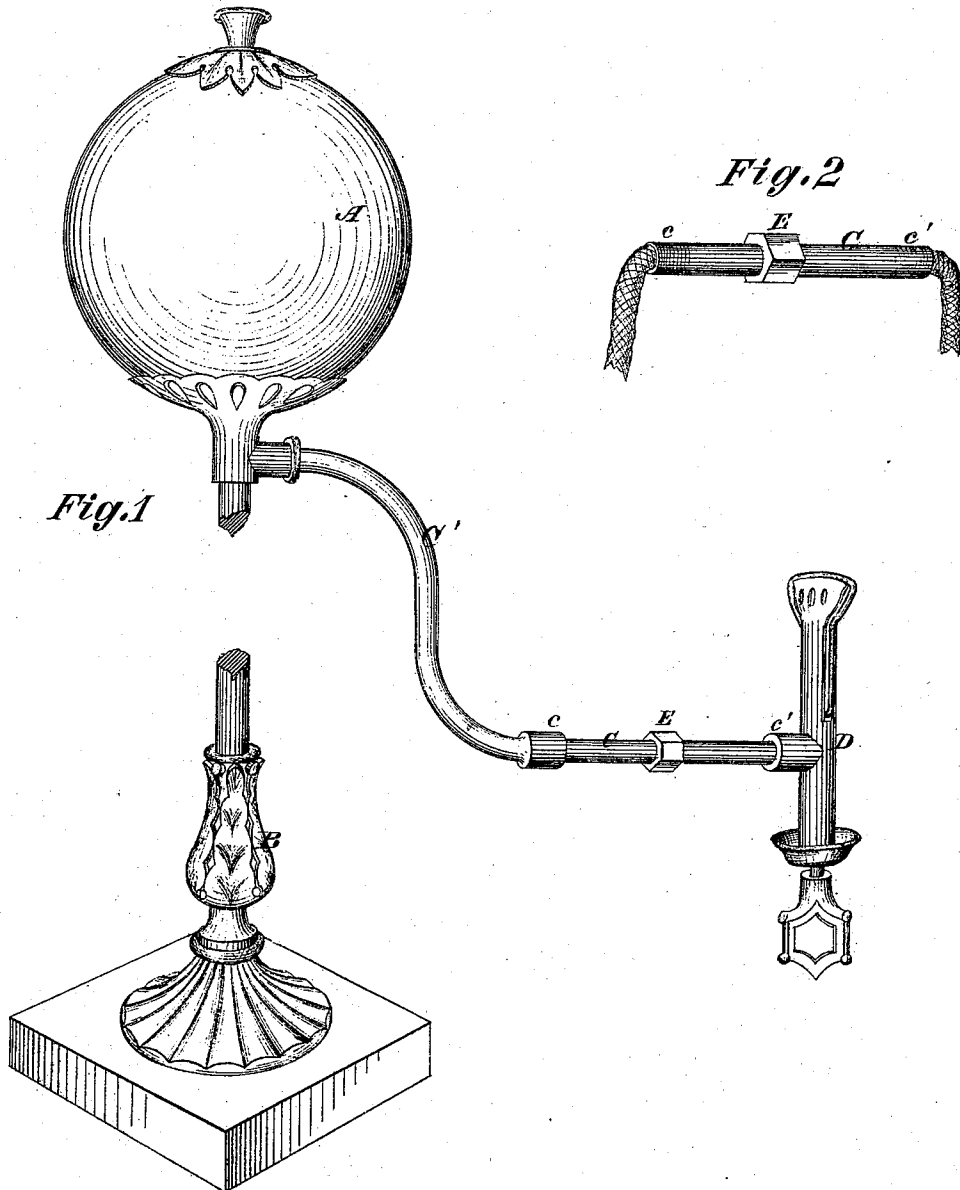


W. E. JERVEY.
Vapor Burner.

No. 113,524.

Patented Apr. 11, 1871.



Witnesses: ~
Wm. H. Rowe.
Jos. L. Peyton.

Inventor: ~
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by his atty
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United States Patent Office.

WILLIAM E. JERVEY, OF NEW ORLEANS, LOUISIANA.

Letters Patent No. 113,524, dated April 11, 1871.

IMPROVEMENT IN PACKING TUBES FOR VAPOR-LAMPS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, WILLIAM E. JERVEY, of the city of New Orleans, in the State of Louisiana, have invented a new and useful Improvement in Packing Tubes for Vapor-Lamps, of which the following is a specification.

My invention relates to that class of vapor-burners in which the naphtha to be vaporized flows from a reservoir through a packed tube in which, or just as it escapes from said tube, the naphtha is vaporized by the heat from the burner, mingled with atmospheric air, ignited, and burned at the jet.

Owing to the heavy deposit from the residuum of the naphtha the packing-tube must frequently be removed, cleaned, repacked, and replaced.

Prior to the date of my invention the reservoir and burner were connected by a packing-tube, screwed at one end into the reservoir-stand, and at the other into the base of the burner. This tube, whether curved or straight, required the use of special tools to remove and insert the packing, and was very difficult to clean. The tube, moreover, had usually to be placed in a vise to unscrew it, the pressure and torsion of which process were very apt to split or bruise the tube.

Now the object of my invention is to obviate these difficulties, and to these ends my improvement consists in constructing the packing-tube with a joint near the bent part when a bent tube is used, and placing a polygonal nut on the straight portion of the tube, or enlarging a portion of the tube and making such enlarged portion polygonal, in order that it may readily be grasped and screwed or unscrewed without injury to the pipe.

In the accompanying drawing—

Figure 1 represents a perspective view of a vapor-lamp to which my improvement is applied, and

Figure 2, a view of the packing-tube detached.

The reservoir A is mounted on a suitable stand, B.

The naphtha flows from this reservoir, through the stand-pipe *a*, to the packing-tube C C', which is packed in the usual way, and through which the fluid flows to the burner D.

Instead, however, of forming this pipe of a single piece, as usual, I make a joint in it at *c*', besides the usual one at *c*.

I also secure a polygonal nut, E, on the joint, near its middle. When it becomes necessary to remove the packing-tube it can easily be done by applying a wrench, without danger of splitting or crushing the tube.

I have found my invention of great practical value, having by it restored to use hundreds of lamps thrown aside as worthless from the clogging of the tubes and the difficulty of cleaning them.

I claim as my invention—

The packing-tube, constructed as described, with a joint, and with a polygonal enlargement on said joint to permit the tube to be removed or replaced without injury to the tube, as set forth.

In testimony whereof I have hereunto subscribed my name.

WM. E. JERVEY.

Witnesses:

CHAS. B. PETTIT,
ROBT. DUNLAP.