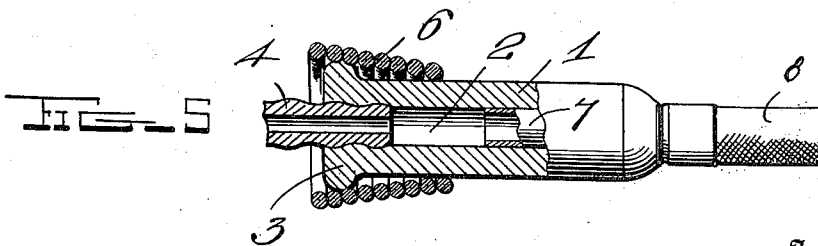
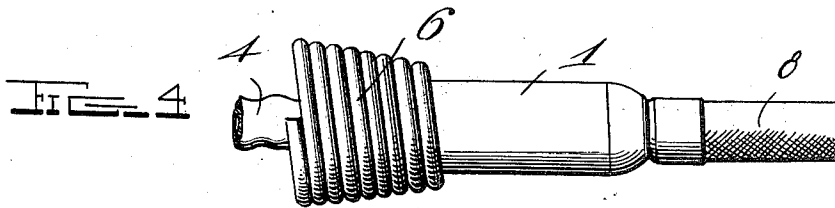
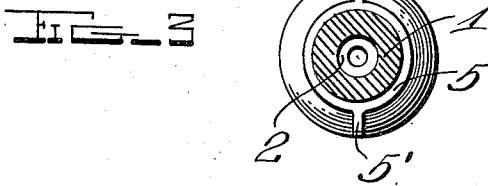
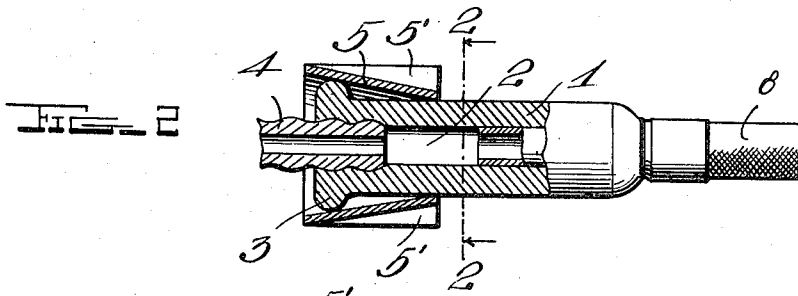
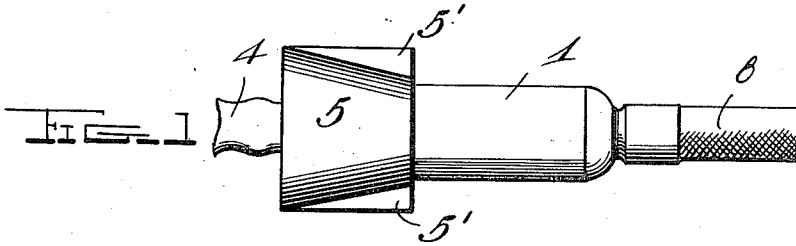


A. W. NICHOLLS.
GAS TUBE TIP.
APPLICATION FILED JAN. 24, 1910.

1,004,678.

Patented Oct. 3, 1911.



Witnesses

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UNITED STATES PATENT OFFICE.

ALBERT W. NICHOLLS, OF EAST NORWALK, CONNECTICUT.

GAS-TUBE TIP.

1,004,678.

Specification of Letters Patent.

Patented Oct. 3, 1911.

Application filed January 24, 1910. Serial No. 539,792.

To all whom it may concern:

Be it known that I, ALBERT W. NICHOLLS, a citizen of the United States, residing at East Norwalk, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Gas-Tube Tips; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to an improved gas tip for connecting rubber hose to gas stoves.

The object of the invention is to provide a simply constructed and efficient device of this character with means for reliably clamping it on the stove nipple.

With the foregoing and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts as will be more fully described and particularly pointed out in the appended claims.

In the accompanying drawings, Figure 1 is a side elevation of one form of this improved tip; Fig. 2 is a longitudinal section thereof showing it applied; Fig. 3 is a transverse section taken on the line 2—2 of Fig. 2. Fig. 4 is a side elevation of a modified form of the invention, and Fig. 5 is a longitudinal section through a portion of the device shown in Fig. 4.

In the embodiment illustrated, the rubber tip 1 is provided with a longitudinal bore 2 extending throughout its length and at its outer end on its outer face with an annular rib or flange 3 designed for reinforcing and strengthening the tip at its point of connection with the stove nipple 4. Arranged over this tip 1 is a clamping sleeve 5, the inner face of which is provided with a bore tapering toward its rear end to form a wedge-like clamping face for engaging the rib 3 of the tip 1 and forcing it firmly into engagement with the nipple 4, as is clearly shown in Fig. 2. To facilitate the manipulation of the sleeve 5, it is provided on its outer surface with longitudinally disposed ribs 5' as clearly shown in Figs. 1, 2 and 3.

In the form shown in Figs. 4 and 5, the clamping sleeve 6 is preferably constructed of heavy wire coiled to form a cone-shaped member, the smaller end of which extends

toward the rear end of the tip 1, which latter is constructed similarly to the tip 1 shown in Fig. 2. This hollow cone-shaped member 6 is slidably mounted on the tip 1 and is designed to be moved forward to clamp the rib or flange 3 of said tip reliably in engagement with the nipple 4 of the stove. A metal connecting tube or thimble 7 of the ordinary construction is connected with one end of a hose 8 and extends into the bore of the tip 1 from the rear end thereof.

It will be obvious that by moving the clamping sleeve 5 or 6 rearwardly, the pressure exerted by their tapered inner face on the rib 3 is removed and the tip may then be readily disconnected from the nipple 4.

From the foregoing description taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention as defined in the appended claims.

I claim as my invention:

1. A gas tube tip comprising a cylindrical elastic sleeve of even bore throughout its length and having its outer end enlarged in the form of an outer annular rib, and a clamping ring slidable on the sleeve, the interior of the ring being conical and flared toward the outer end of the sleeve, the outer end of said interior being of sufficiently great diameter to embrace the rib and the inner end of the same of less diameter than the rib, whereby when the ring is moved outwardly on the sleeve, the end of the sleeve, including the rib, will be tightly squeezed.

2. A gas tube tip comprising a cylindrical elastic sleeve of even bore throughout its length and having its outer end enlarged in the form of an outer annular rib, and a clamping ring slidable on the sleeve, consisting of a conical coil of heavy wire the interior of the ring being conical and flared toward the outer end of the sleeve, the outer end of said interior being of sufficiently great diameter to embrace the rib and the

inner end of the same of less diameter than the rib, whereby when the ring is moved outwardly on the sleeve, the end of the sleeve, including the rib, will be tightly
5 squeezed and gripped by the coils of the ring.

In testimony whereof I have hereunto set

my hand in presence of two subscribing witnesses.

ALBERT W. NICHOLLS.

Witnesses:

HAZEL B. POTTER,

FRANK E. GERRISH,