

No. 733,130.

PATENTED JULY 7, 1903.

J. D. BLAKELEY.
GLASS BLOWER'S TUBE.
APPLICATION FILED OCT. 15, 1902.

NO MODEL.

Fig. 1.

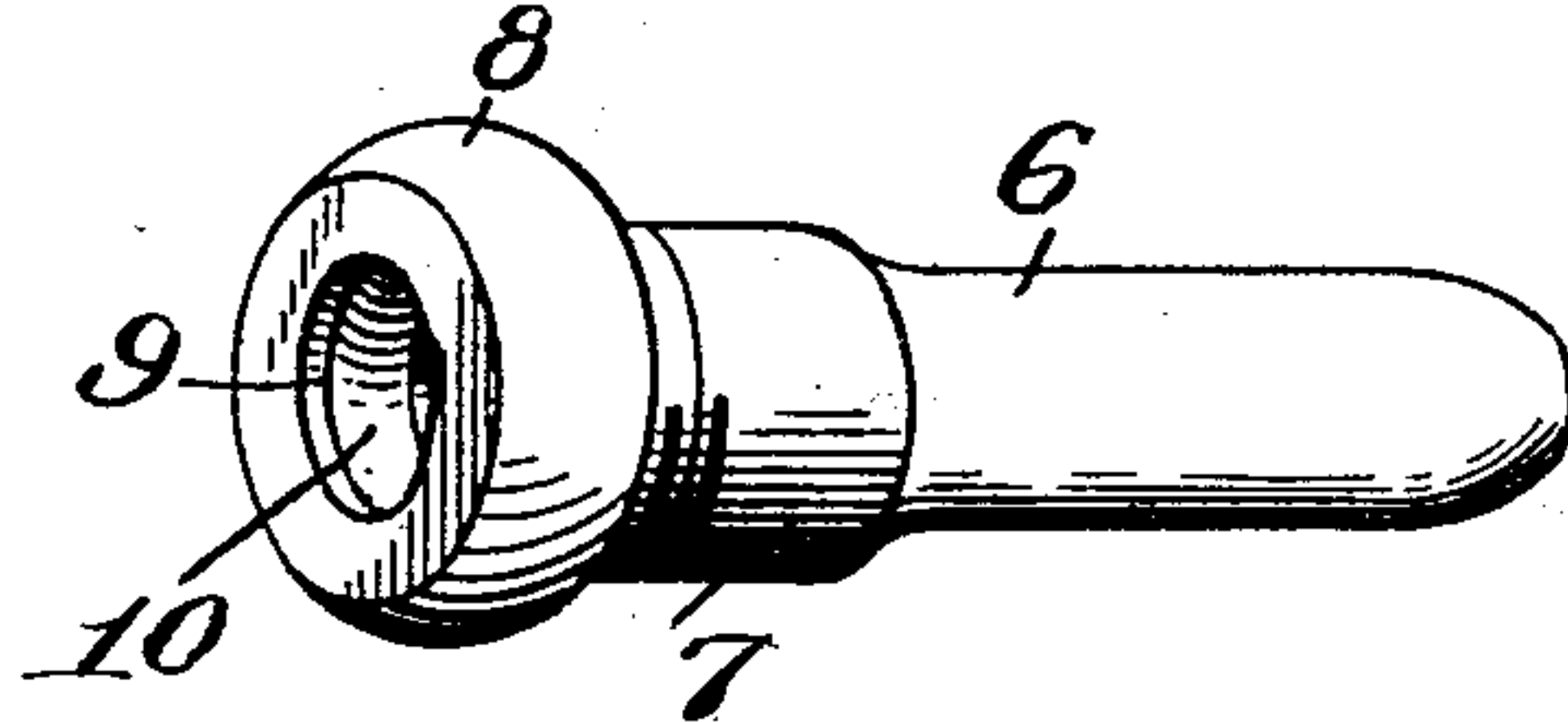


Fig. 2.

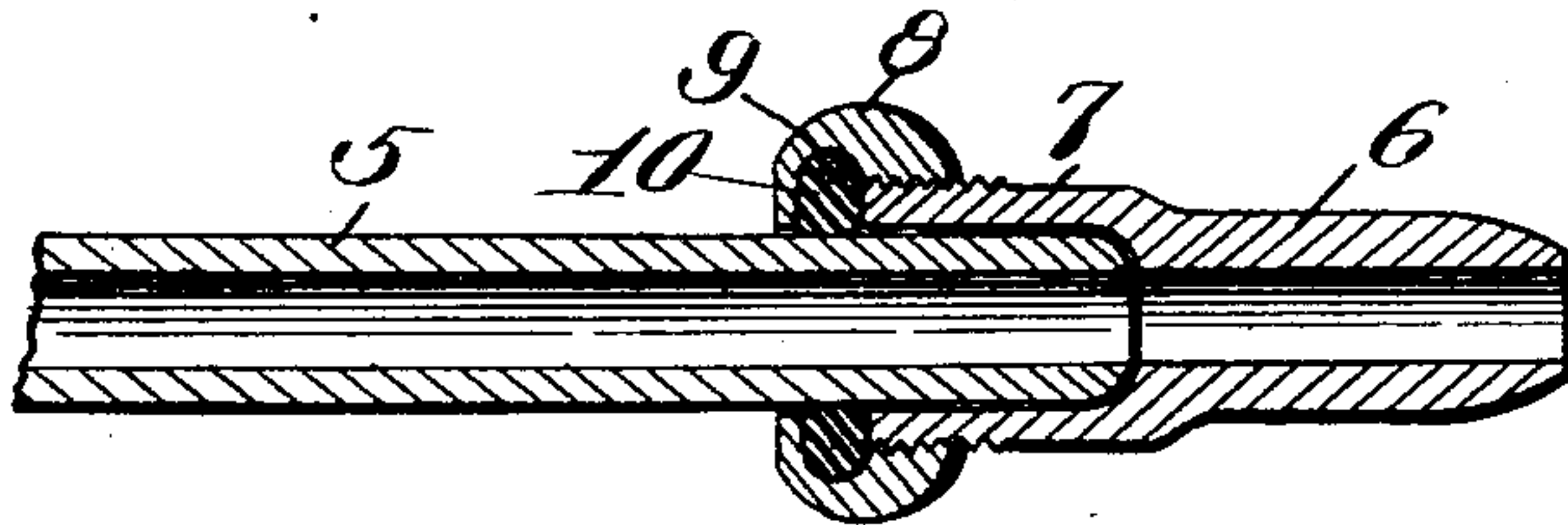


Fig. 3.

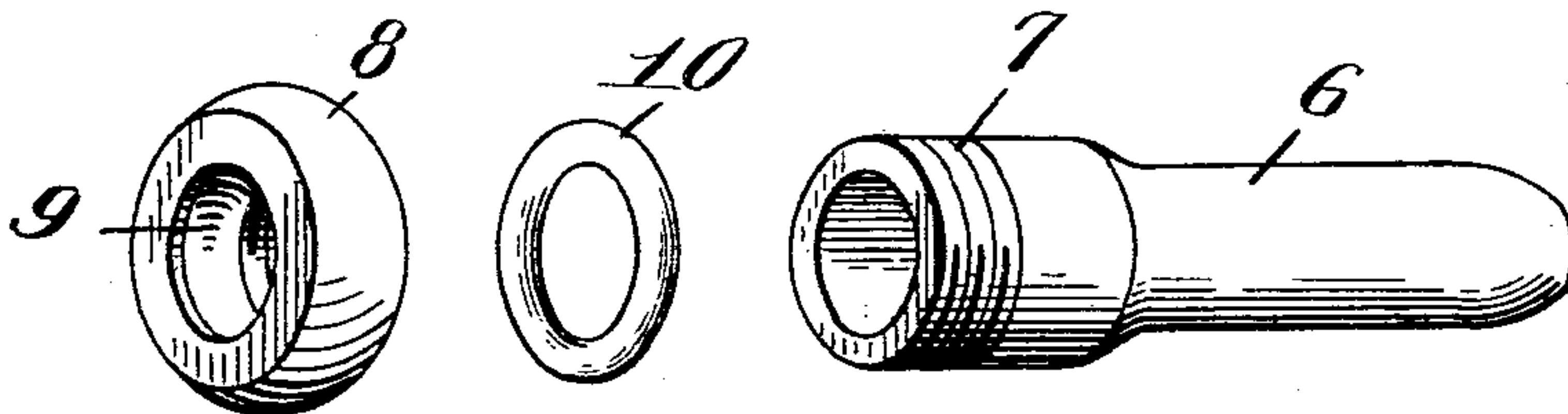
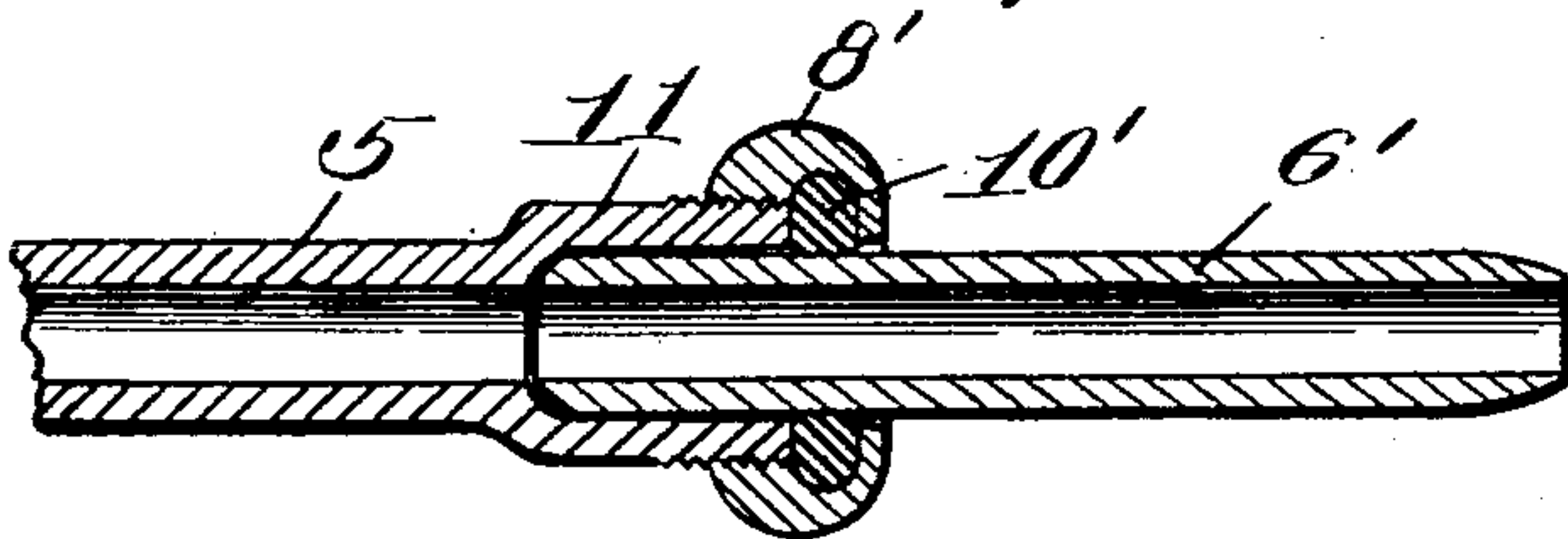


Fig. 4.



Witnesses:
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UNITED STATES PATENT OFFICE.

JOHN D. BLAKELEY, OF LIMA, OHIO.

GLASS-BLOWER'S TUBE.

SPECIFICATION forming part of Letters Patent No. 733,130, dated July 7, 1903.

Application filed October 15, 1902. Serial No. 127,396. (No model.)

To all whom it may concern:

Be it known that I, JOHN D. BLAKELEY, a citizen of the United States, residing at Lima, in the county of Allen and State of Ohio, have
5 invented new and useful Improvements in Glass-Blowers' Tubes, of which the following is a specification.

This invention relates to glass-blowers' tubes, and more especially to a mouthpiece
10 therefor, and the improved device is simple and effective.

I provide for the tube a removable mouthpiece, so that each blower can have his individual mouthpiece, by reason of which it is
15 not possible to transmit contagious diseases from one operator to another. The mouthpiece is in the present case held frictionally in place by means including an elastic gasket or washer suitably held in an annular groove
20 or channel in one part, and preferably the gasket or washer is carried by the mouthpiece. In the preferred form of the invention the mouthpiece includes a tubular body fitted by a screw-thread joint into a ring or collar, the
25 latter having upon its inner wall a circular groove or channel to receive the gasket or washer, which is positively held from displacement by the tubular body of the mouthpiece. The gasket or washer extends beyond
30 the inner wall or ring, so that when the latter is slipped over the upper end of the blower's tube the mouthpiece is frictionally secured against removal by ordinary jars, although the mouthpiece can be readily taken off by
35 a slight pressure exerted by the user.

In the drawings forming a part of this specification, Figure 1 is an elevation of the preferred form of the mouthpiece. Fig. 2 is a longitudinal central section of the blower's
40 tube and mouthpiece attached thereto. Fig. 3 is a detail sectional view of the mouthpiece with the several parts thereof separated from each other. Fig. 4 is a sectional view of a modified form of the invention.

45 Like characters refer to like parts in all the figures.

The tube and its mouthpiece may be made from any suitable material, the said parts being denoted in a general way by the numerals
50 5 and 6, respectively, the upper end of the

tube being on a slight taper, so as to facilitate the application of the mouthpiece thereto.

In the preferred form of the invention and as illustrated more particularly in Fig. 3 the mouthpiece 6 includes a tubular body 7, having at what might be considered its lower
55 end an externally-threaded portion, the threads of which are adapted to engage corresponding and internal threads upon the ring or collar 8 in order to hold the two parts
60 united, as represented in Fig. 1. Upon the inner wall of the ring 8 I form a circular channel or groove 9, adapted to snugly receive the circular gasket or washer 10 of some elastic material—such, for example, as rubber—the gasket being deeper than the chan-
65 nel, so that the inner face of the gasket can project beyond the corresponding wall of the ring 8 in order that said gasket can secure a proper purchase upon the upper and somewhat-tapered end of the blower's tube 5.
70 I do not rely wholly upon the elasticity of the gasket 10 to hold the same in the circular channel or seat 9, but run the tubular body 7 of the mouthpiece into the ring 8 until the
75 lower end of said body abuts against the gasket, and thereby holds the same positively in place. Besides this, the said tubular body can be employed for compressing the gasket in order to take up wear in the latter or in
80 order to regulate the fit of the mouthpiece to the blower's tube. It will be understood that the mouthpiece can be readily applied to the tube by inserting the latter into the former, and the two are held firmly and against
85 detachment by ordinary jars. The mouthpiece, however, can be easily removed from the tube by the application of pressure thereto by the user.

In Fig. 4 I illustrate a modification of the device wherein the upper end of the tube 5
90 has an enlarged head 11, externally threaded to receive the ring 8'. The inner wall of the ring 8' has a groove or channel to receive the gasket 10', of rubber or its equivalent, which
95 is held in place by turning the ring or nut 8' onto the threaded head 11, such action of course compressing the gasket 10', as was done in the other case. The ring or nut 8' therefore presents upon its inside an elastic
100

surface which is adapted to frictionally engage the mouthpiece 6' when the same is inserted into the said ring 8'. The mouthpiece 6', it will be understood, is plain or consists
5 simply of a tube in one piece.

In both cases hereinbefore described it will be understood that the mouthpiece is removable and is connected frictionally with the blower's tube, so that it can be easily applied
10 and removed, and both operations can be accomplished with rapidity. By virtue of the rubber gasket hereinbefore described in connection with each of the mouthpieces the escape of air from the mouthpiece at the joint
15 between the same and the tube is positively prevented.

It will be seen on reference to Figs. 2 and 4 that the internal diameter of the mouthpiece is substantially the same as that of the
20 tube, so that when such parts are assembled or fitted together their interiors present practically a continuous bore of approximately uniform diameter throughout its entire length.

Having described the invention, what I 25 claim is—

1. A mouthpiece for glass-blowers' tubes consisting of a tubular body and a ring detachably connected therewith, the ring having an annular channel upon its inside wall, 30 provided with an elastic gasket, and the said tubular body being adapted to engage said gasket.

2. The combination of a glass-blower's tube and a mouthpiece therefor, one of said parts 35 having an externally-threaded portion, a ring interiorly threaded to engage said threaded portion, having an annular channel in its inner wall, and an elastic gasket fitted in said channel, arranged to engage one of said two 40 first-mentioned parts.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

JOHN D. BLAKELEY.

Witnesses:

GEO. D. BEAUMONT,
S. S. WHEELER.