

No. 663,848.

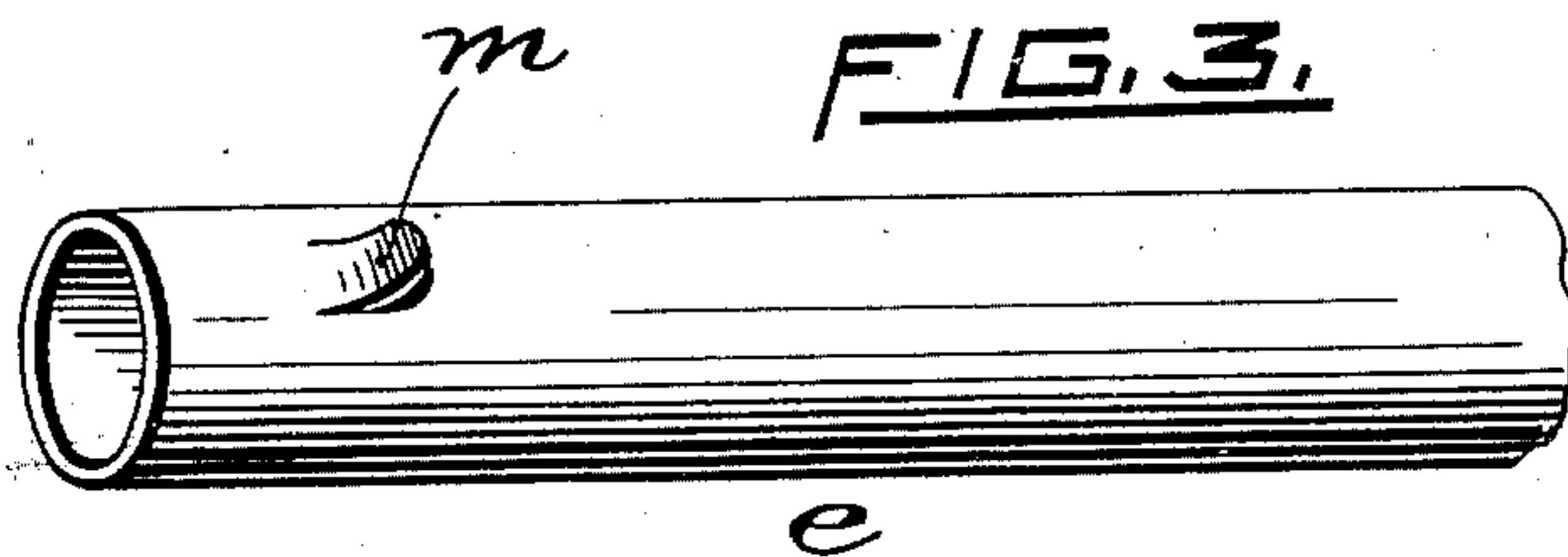
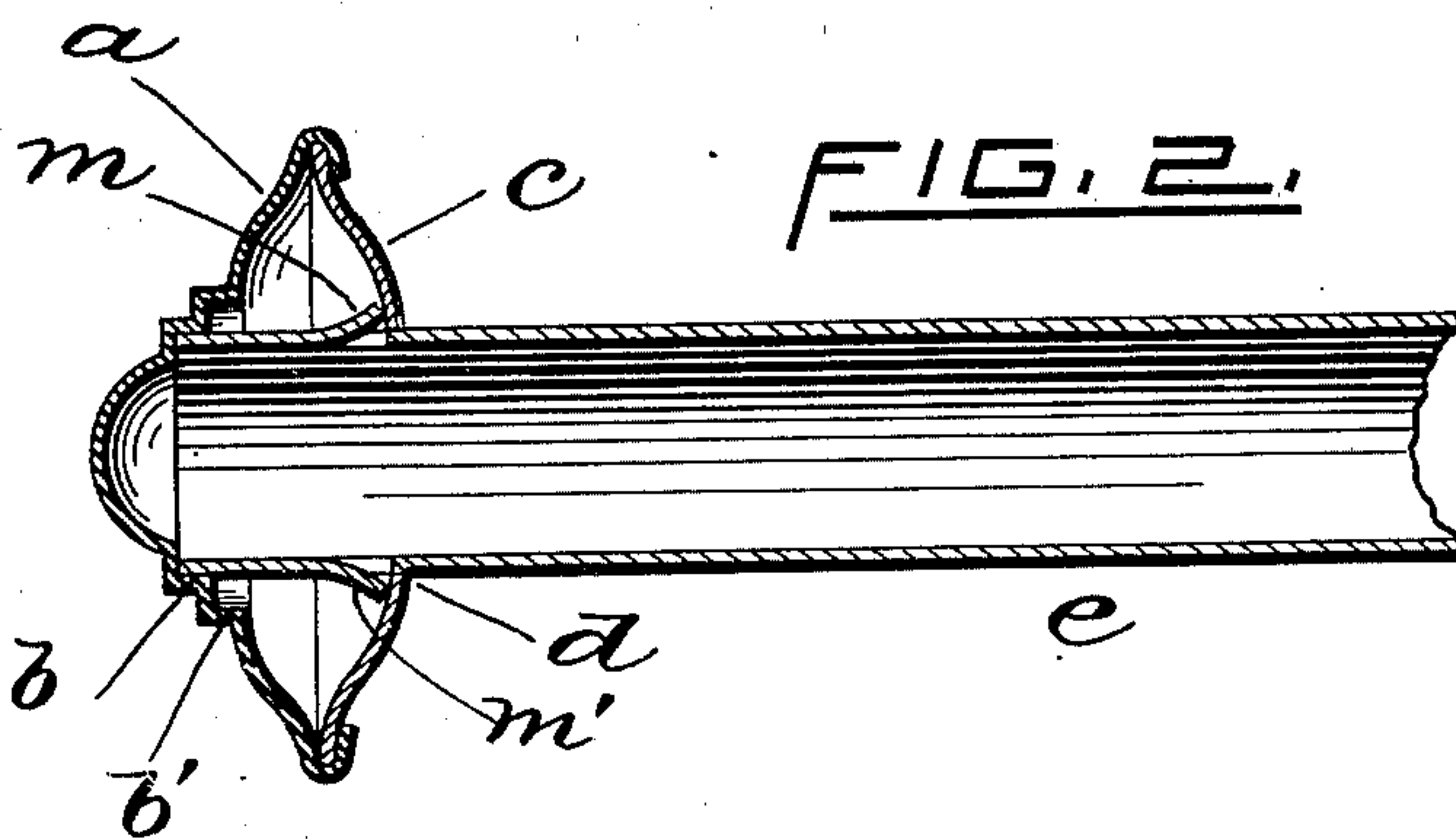
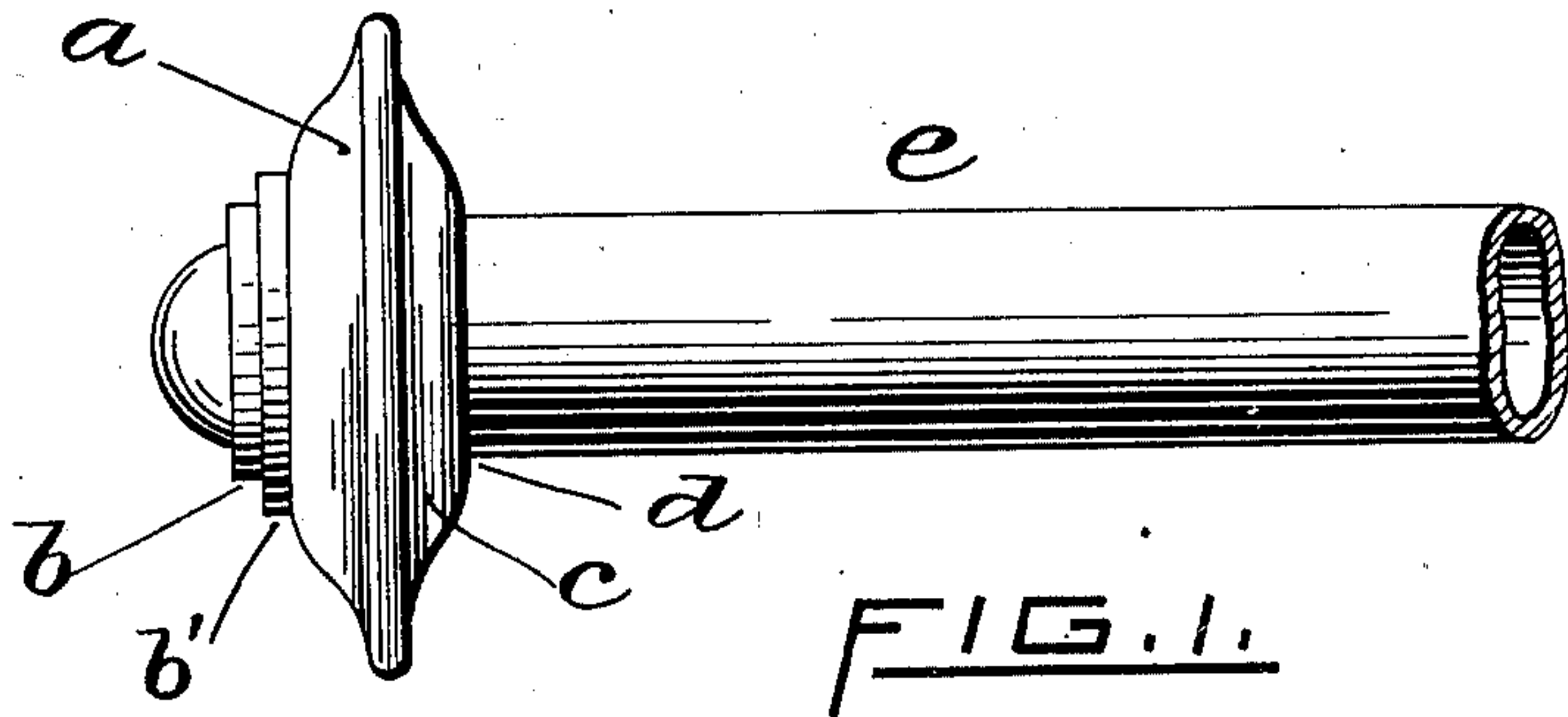
Patented Dec. 18, 1900.

H. T. BARNWELL.

CURTAIN ROD.

(Application filed Oct. 12, 1900.)

(No Model.)



WITNESSES.

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UNITED STATES PATENT OFFICE.

HARRY T. BARNWELL, OF PROVIDENCE, RHODE ISLAND.

CURTAIN-ROD.

SPECIFICATION forming part of Letters Patent No. 663,848, dated December 18, 1900.

Application filed October 12, 1900. Serial No. 32,819. (No model.)

To all whom it may concern:

Be it known that I, HARRY T. BARNWELL, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented a certain new and useful Improvement in Curtain-Rods, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to metallic curtain-rods which have tubular bodies and whose heads are affixed to the rod member.

The object of my invention is to construct a curtain-rod of minimum weight at small cost having great durability. Heretofore attempts have been made to secure these ends by joining the parts with solder or inserting wood into a hollow metallic head, but in practical use these expedients have been ineffective. I secure the desired objects by means of the construction hereinafter described, and illustrated in the drawings, wherein—

Figure 1 is a side elevation of a section of my curtain-rod; Fig. 2, a central vertical section of the same, and Fig. 3 a perspective view of a part of the rod member.

Similar letters indicate similar parts throughout the several views.

I construct my device as follows: A circular cap of thin sheet metal *a* is struck up, having one or more concentric shoulders *b b'*. These form an exterior ornamentation of the rod-head exterior and afford on the interior of the head a suitable bearing for the rod-body. This cap, which forms the front of the head, is spun, swaged, or otherwise joined to the rear member *c* of the head, which is also struck up from thin metal, having a circular opening *d* to allow the passage of the rod member *e* therethrough. The rod member *e* is tubular, having near its end spring-tongues *m m'*, formed by cutting circular pieces in the

rod member, on opposite sides thereof, whose free extremities normally project above the surface of the rod-member. The head and body members are united by inserting the rod member, with its spring-tongues, through the opening *d* into the head until its end contacts with the head-cap *a* and abuts against the inner concentric shoulder *b*. The moment the rod end contacts as above the spring-tongues *m m'* immediately expand and engage the rear head-plate *c*, thus uniting the head to the rod in such a firm manner that the periphery of the head can have no lateral motion.

The outer concentric shoulder *b'* is provided in order to make the front cap *a* suitable as a bearing for a rod end of greater diameter than that shown when such size is desired.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A curtain-rod consisting of a tubular rod member, spring-tongues on both sides of the tubular rod member, and a hollow head member whose rear face is provided with a concentric shoulder for engaging the end of the rod member in conjunction with the rear portion of the head.

2. A curtain-rod consisting of a tubular rod member, having spring-tongues cut from both sides of the same, and a hollow head member adapted to be locked thereon by means of said tongues and a concentric shoulder on the inner face of the head.

In testimony whereof I have affixed my signature in presence of two witnesses.

HARRY T. BARNWELL.

Witnesses:

MARY F. CADY,
HORATIO E. BELLOWS.