

No. 771,120.

PATENTED SEPT. 27, 1904.

W. BODETTE.
TUBULAR CHIME BELL FOR WHISTLES.

APPLICATION FILED DEC. 15, 1902.

NO MODEL.

FIG. 1.

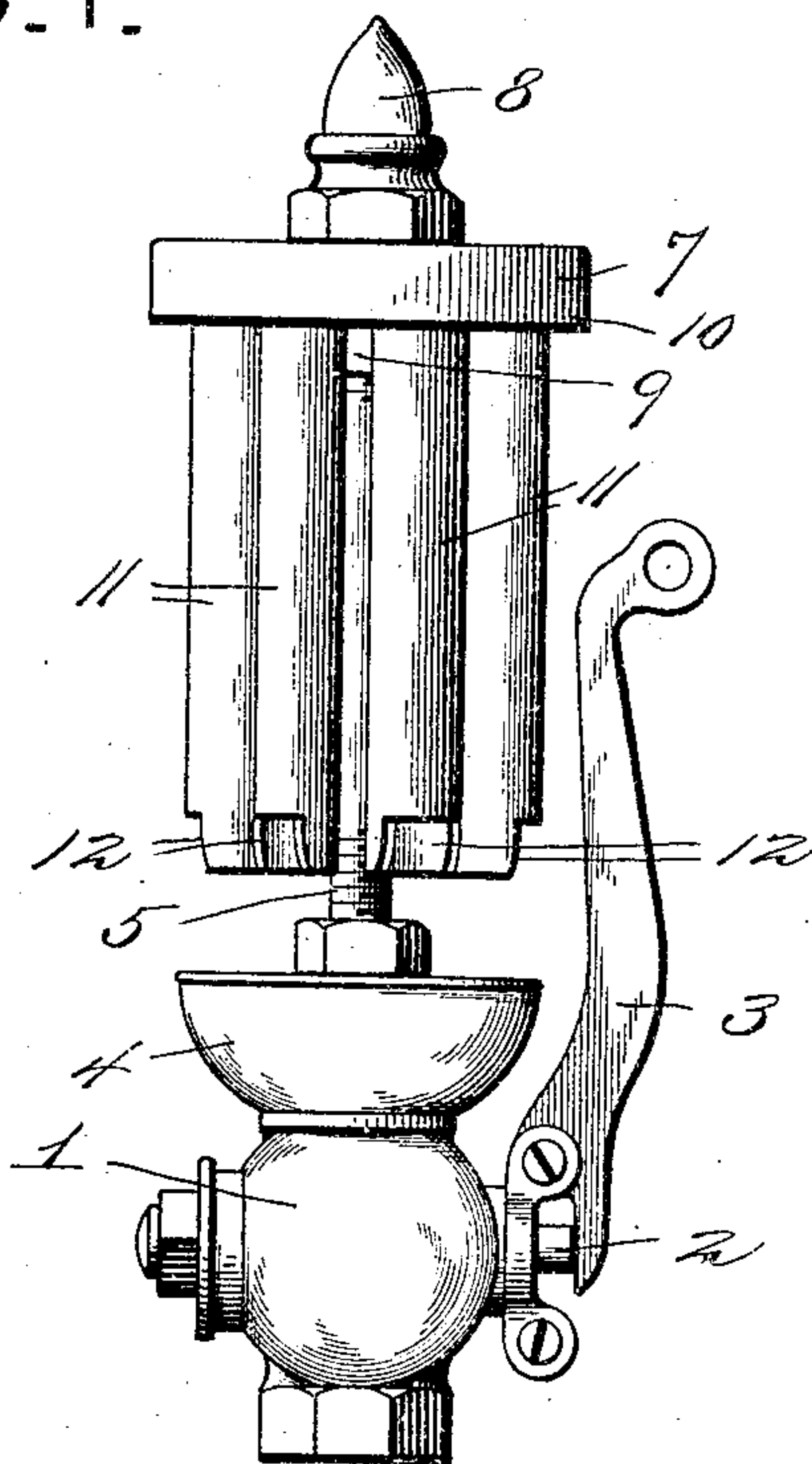


FIG. 2.

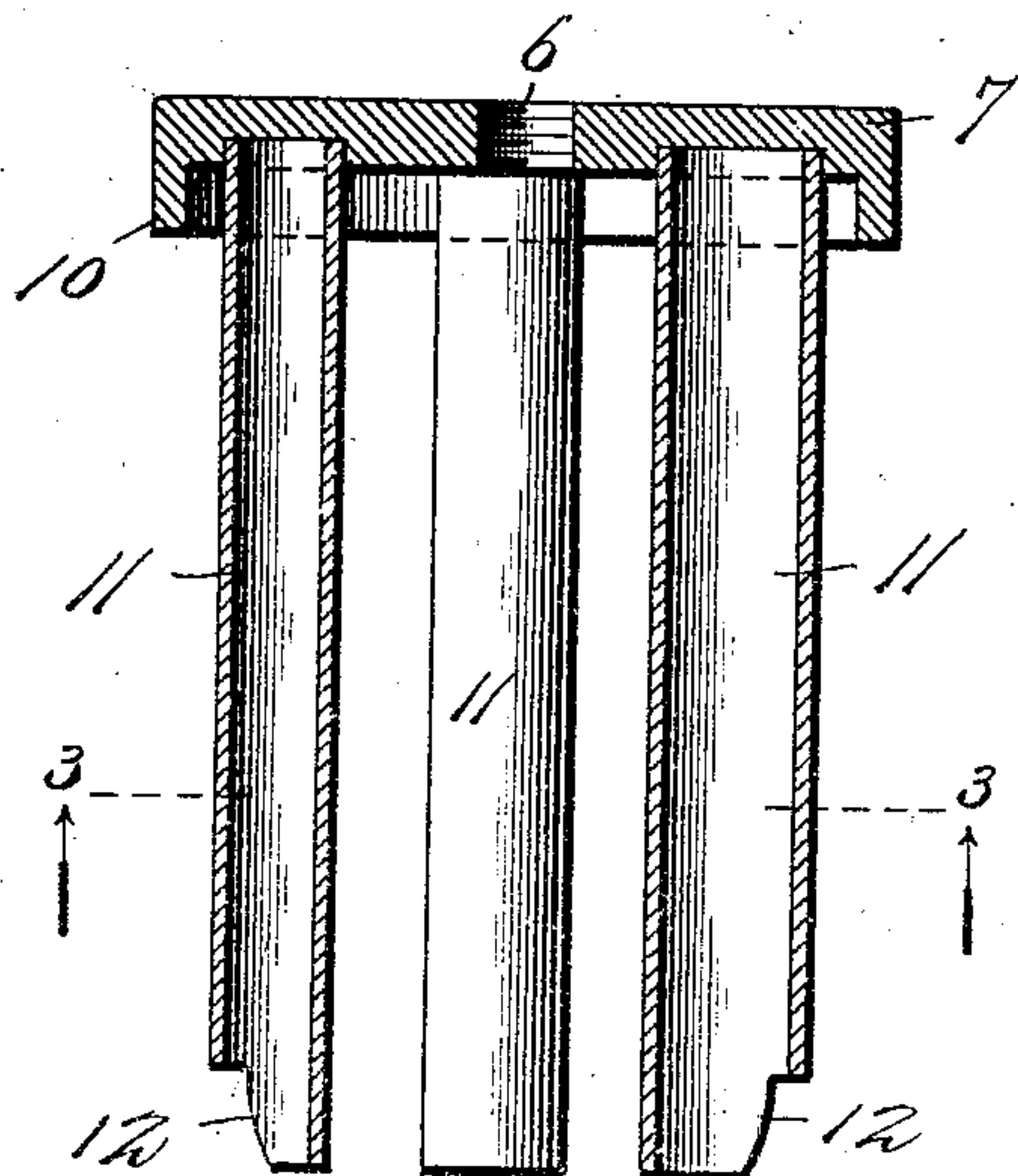
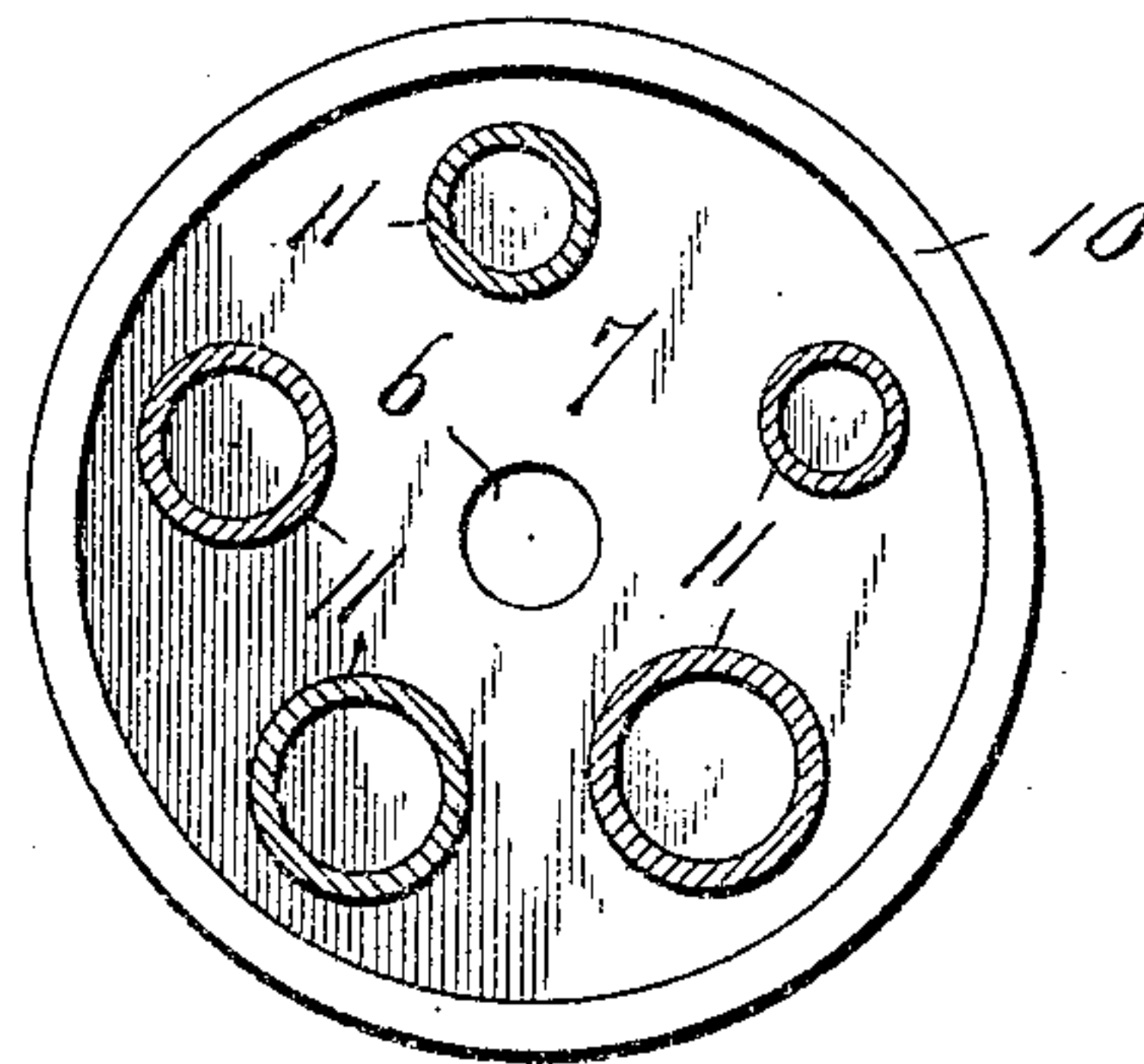


FIG. 3.



Witnesses

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TUBULAR CHIME-BELL FOR WHISTLES.

SPECIFICATION forming part of Letters Patent No. 771,120, dated September 27, 1904.

Application filed December 15, 1902. Serial No. 135,350 (No model.)

To all whom it may concern:

Be it known that I, WILLIAM BODETTE, a citizen of the United States, residing at Elizabeth, in the county of Union and State of New Jersey, have invented new and useful Improvements in Whistles, of which the following is a specification.

My invention relates to new and useful improvements in whistles especially adapted for use upon steamboats, locomotives, &c. Its object is to provide a device of simple construction which will be attached to the bowl of an ordinary steam-whistle and which is provided with a series of depending tubes of various sizes, whereby different sounds may be produced simultaneously when steam is directed upon the ends of said tubes.

With the above and other objects in view the invention consists in providing a cap, preferably circular in form and from the under surface of which depends a series of tubes of different diameters, said tubes being arranged adjacent to the periphery of the cap. A stem is arranged at the center of the cap and connects the same to the top of the bowl of an ordinary steam-whistle valve. The lower or open ends of the tubes are so shaped that when steam is directed thereacross by the opening of the bowl sounds will be produced simultaneously upon all of the tubes.

The invention also consists in the further novel construction and combination of parts more fully hereinafter described and claimed, and illustrated in the accompanying drawings, showing the preferred form of my invention, and in which—

Figure 1 is a side elevation showing my improved bell attached to a whistle-valve and bowl of ordinary construction. Fig. 2 is an enlarged central vertical section through my improved whistle, the stem thereof being removed; and Fig. 3 is a section on line 3 3 of Fig. 2.

Referring to the figures by numerals of reference, 1 is a valve of ordinary construction, the stem 2 of which is adapted to be operated by means of a lever 3, which may be connected to a suitable cord. (Not shown.) The bowl 4 is of ordinary construction, and steam is adapted when the valve 1 is open to be direct-

ed from said bowl upward and outward at an incline. A stem 5 is secured to the center of bowl 4 and both ends thereof are screw-threaded, the upper end engaging a threaded aperture 6, formed within the center of a circular cap 7. A nut 8 of desired form may be screwed upon the end of the stem 5 and hold the cap locked in position thereon. A lock-nut 9 may also be arranged upon said stem at a point below the cap, and by means of these two nuts said cap may be held at any point upon the stem to which it may be adjusted.

It is apparent that the intensity of the sounds produced by the passage of steam across the cut-away ends of the tubes 11 may be varied by altering the height of these ends from the escape-openings of the bowl 4, and by loosening the nuts 8 and 9 and rotating the cap 7 on the screw-threaded upper end of stem 5 the desired alteration may be readily effected, it being understood, as already explained, that the upper ends of the tubes are rigid with said cap.

A flange 10 is arranged upon the cap 7 and extends downward therefrom, and at desired intervals upon the lower face of the cap are secured tubes 11, preferably of different diameters, but of the same length. These tubes are formed of any suitable metal, and the lower ends thereof, which are open, are cut away at their outer sides in such a manner that the ends 12 of said cut-away portions and the lower ends of the tubes will lie in planes substantially parallel to the path of steam escaping from the bowl 4.

To operate the bell, the lever 3 is swung upon its fulcrum, thereby forcing stem 2 inward and opening the valve 1. The bowl 4, which is of the ordinary construction, permits this steam to escape from points adjacent to the edge thereof, and this steam will pass outward with great force and coming into contact with the lower ends of the tubes will produce sounds therefrom. As the tubes are of different sizes, it is obvious that different sounds will be produced therefrom, and as all are operated in unison it will be seen that a powerful resonating sound is produced. The device is of such character that it may be readily attached to the valve of an ordinary

steam-whistle, and it is exceedingly simple, durable, and inexpensive.

In the foregoing description I have shown the preferred form of my invention; but I do
5 not limit myself thereto, as I am aware that modifications may be made therein without departing from the spirit or sacrificing any of the advantages thereof, and I therefore re-
serve the right to make such changes as fairly
10 fall within the spirit of my invention.

Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

A whistle attachment comprising a valve
15 and its casing, a bowl supported by said casing, a stem secured at one end to the center of the bowl, a cap having inner face-bearings

and a surrounding depending flange, said cap being adjustably mounted on the upper end of the stem, a series of tubes constructed of dif- 20
ferent diameters having their upper ends se-
cured in the bearings of the cap, said tubes being open at their lower ends and having cut-
away portions, and means on the upper end
of the stem for securing the respective parts 25
of the attachment together, substantially as specified.

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

WILLIAM BODETTE.

Witnesses:

BARNETT BROWN,
WILLIAM BARNETT BROWN.