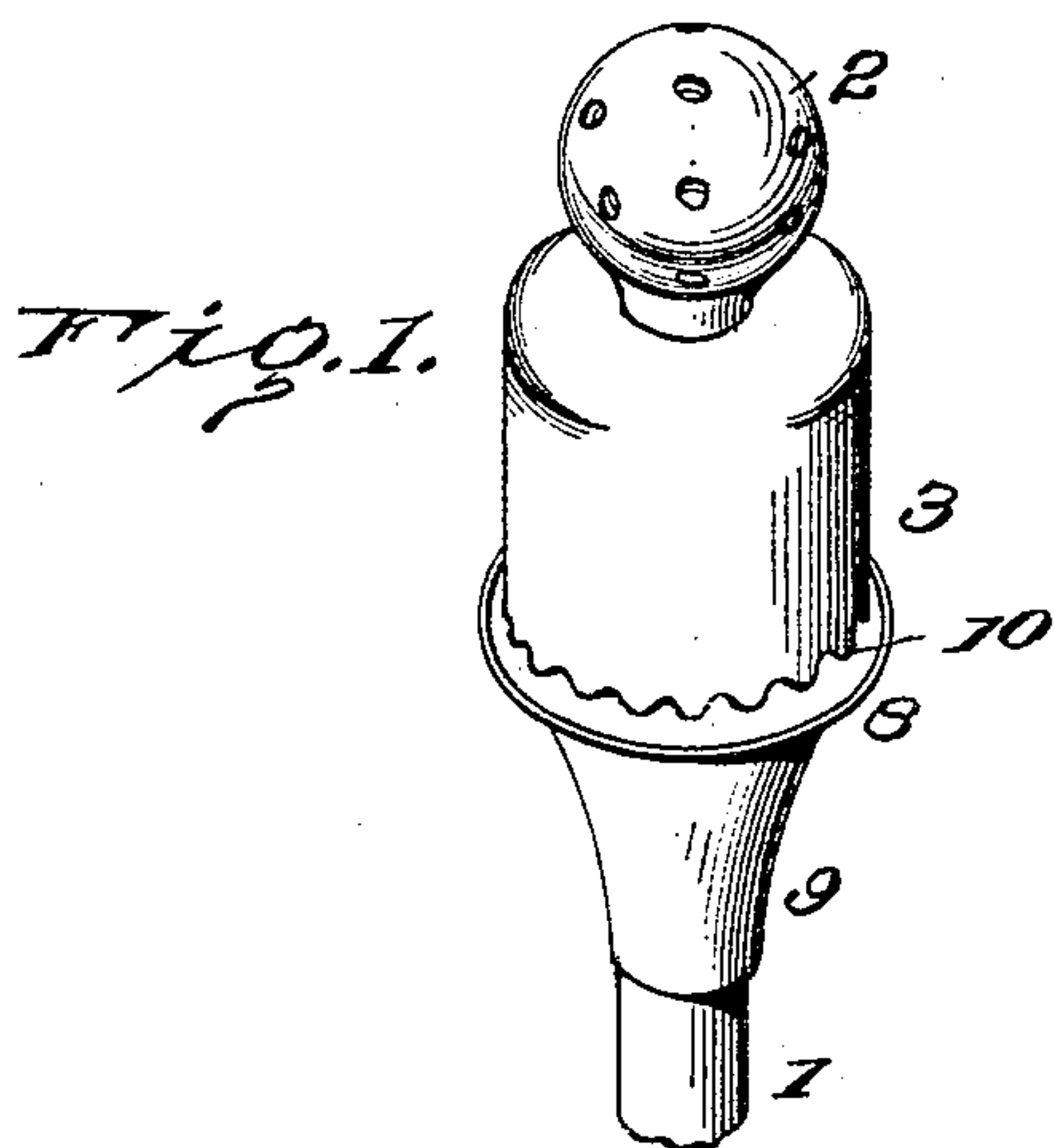


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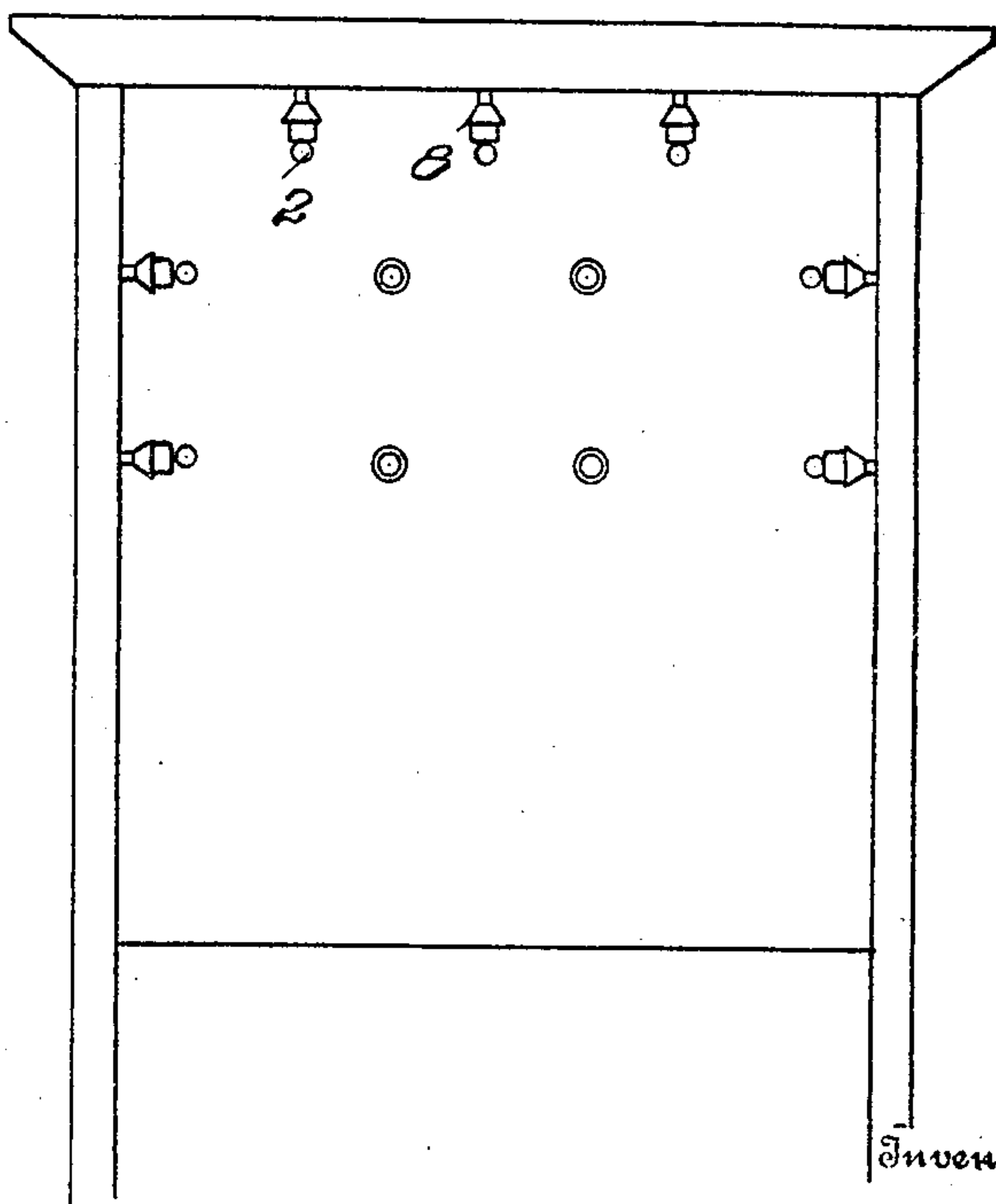
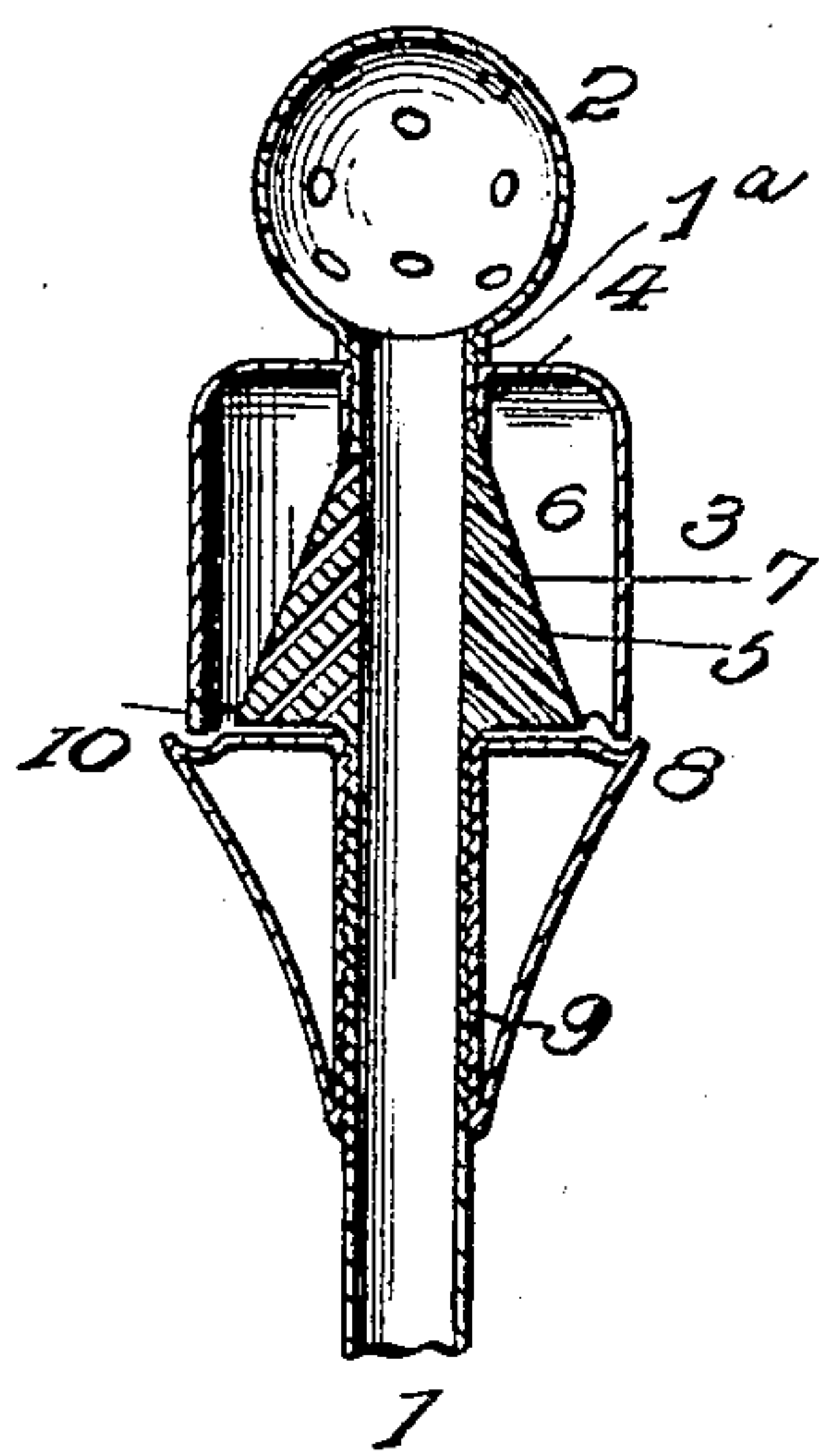
PATENTED JULY 25, 1905.

J. ROGERS.  
FIRE EXTINGUISHER.  
APPLICATION FILED AUG. 30, 1904.



*Fig. 3.*

*Fig. 2.*



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# UNITED STATES PATENT OFFICE.

JOHN ROGERS, OF PERRY, IOWA.

## FIRE-EXTINGUISHER.

No. 795,310.

Specification of Letters Patent.

Patented July 25, 1905.

Application filed August 30, 1904. Serial No. 222,728.

*To all whom it may concern:*

Be it known that I, JOHN ROGERS, a citizen of the United States, residing at Perry, in the county of Dallas and State of Iowa, have invented certain new and useful Improvements in Fire-Extinguishers, of which the following is a specification.

This invention embodies a novel attaching device specially designed for use in buildings having an arrangement of pipes whereby water may be supplied to the various rooms, halls, and other parts thereof in order to drench the building in the event of the same taking fire.

The attaching device comprising the invention is adapted to be applied to the outer of the pipes leading to the various parts of the building and is advantageous as a means for spraying and throwing the water so that the portion of the building in which the device is located will be effectively drenched and all fire at such portion extinguished.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is to be had to the following description and accompanying drawings.

While the essential and characteristic features of the invention are susceptible of modification, still the preferred embodiment of the invention is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of an attachment embodying the invention. Fig. 2 is a vertical longitudinal sectional view through the invention, bringing out the manner of assembling the parts thereof. Fig. 3 is a diagrammatic view of a building, showing the manner of arranging the attaching devices comprising the invention therein.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

In the drawings the numeral 1 designates a supply-pipe, and this supply-pipe is designed to lead to a suitable room or part of the building, being connected with the water-main, so that upon proper operation of valves water may be admitted to the pipe 1 preparatory to the drenching operation. The end of the pipe 1 is provided with a sprinkling member 2, and this member is preferably in the form of a perforate hollow ball provided with a threaded opening, so that same may be

screwed upon a threaded portion 1<sup>a</sup> at the end of the pipe 1, and thus secured thereto. A shell 3 surrounds the pipe 1 and is attached thereto adjacent the sprinkler 2 in any suitable manner. As shown, the shell 3 is closed at the end adjacent the part 2, the closed end being provided with a threaded extension 4, which may be readily screwed upon the threaded portion 1<sup>a</sup> of the pipe 1. The shell 3 forms an annular water-chamber 6 between the same and the pipe, and a pipe 1 is provided with outlets 5, communicating with the interior of said chamber 6, to supply water thereto. The outlets 5 comprise inclined openings through an enlargement 7, formed upon the pipe 1 within the shell 3, said enlargement forming a deflector to properly direct the water from the pipe 1 into the water-chamber 6 above mentioned. The end of the shell 3 opposite to that adjacent the member 2 is open, and spaced from the open end of the said shell is a spraying-section 8, the latter also having threaded connection with the pipe 1, the threaded portion being indicated at 9. The threaded connection of the spraying-section 8 of the device admits of adjustable movement of this part toward and from the open end of the shell 3, and such movement is advantageous, in that the quantity of water passing from the water-chamber 6 may be regulated according as is necessary and dependent upon the size of the room to be drenched and other obvious considerations. The end of the shell 3 adjacent the part 8 is provided with a plurality of notches or serrated portions, as shown at 10, which promote the spraying action of the water as same is expelled from the chamber 6 under pressure from the water-main. The notched or serrated end of the shell 3 is adapted to be adjusted toward and from an annularly-grooved portion 11, formed in the adjacent side of the section 8. The said adjacent side of the part 8 is preferably flat, so as to properly deflect or spray the water laterally or in a direction governed by the position of said part 8. The openings 5 in the deflector 7 incline toward the open end of the shell 3, so as to cause the water to flow in this direction. The spraying-section 8 receives the body of the pipe 1 about centrally thereof, and this section 8 is of somewhat conical form. The formation of the part 8 is such as to admit of ready grasping the same in order to adjust the position thereof as regards the open end of the shell 3.

It is designed that the parts 2, 3, and 8 be



made of any suitable material, preferably of soft metal, and said parts shall be suitably ornamented according to the amount desired to be expended thereon. The attaching devices are also to be made in various sizes, those for closets or smaller rooms being smaller than those necessarily utilized for larger rooms. Any suitable number of the devices may be used in a single compartment, and the invention is designed for vessels or the like as well as for houses. Further, it will be noted that the invention affords both a sprinkling and sprayer means, this feature thereof being advantageous in effecting thorough drenching of the portion of the building, vessel, or other part in which the fire is to be extinguished.

The spraying device may be readily used for sprinkling or spraying a liquid chemical, such as is adapted for fire-extinguishing purposes. The chemical may be fed to the sprayer device from any suitable source.

Having thus described the invention, what is claimed as new is—

1. In an extinguishing device for buildings or the like, the combination of a supply-pipe provided at one end with a perforate ball, a shell surrounding said pipe adjacent the ball

and open at one end, said shell forming a water-chamber between the same and the pipe, the pipe being provided with outlet-openings leading to the water-chamber, and a sprayer-section threaded upon the pipe exterior of the shell and adjustable toward and from the open end of the shell.

2. In an extinguishing device for buildings or the like, the combination of a water-supply pipe having a sprinkling-ball threaded upon one end, a shell surrounding said pipe adjacent the ball and open at one end, the peripheral portion at the open end of the shell being notched or serrated, a deflector comprising an enlargement of the pipe located within the shell, outlet-openings leading from the supply-pipe through the deflector to the interior of the shell, and an adjustable spraying-section movable toward and from the open end of the shell and provided with an annular groove upon the said shell to receive the serrated or notched portions of the latter.

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

JOHN ROGERS. [L. S.]

Witnesses:

JOHN M. TYER,

ALLIE W. POWELL.