

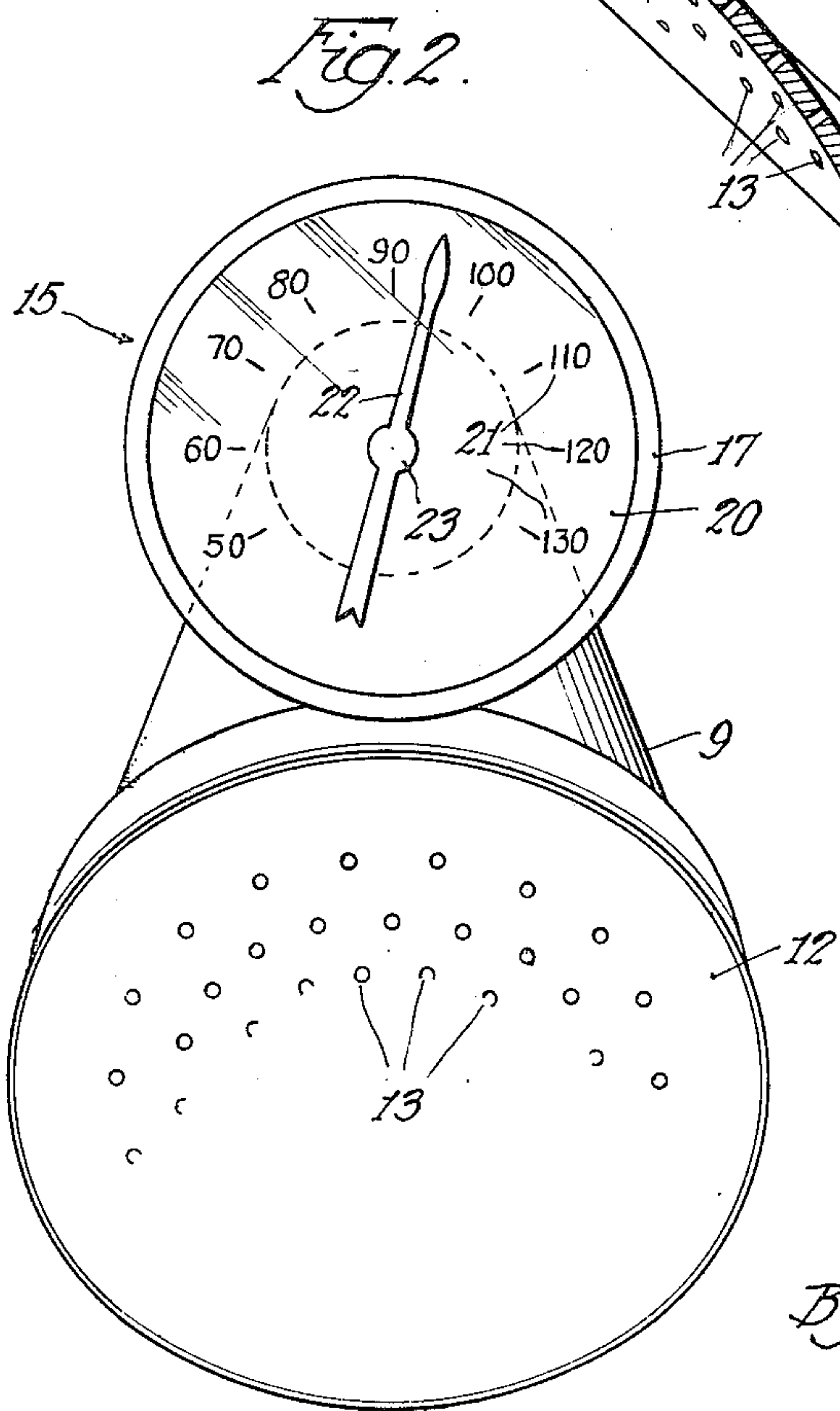
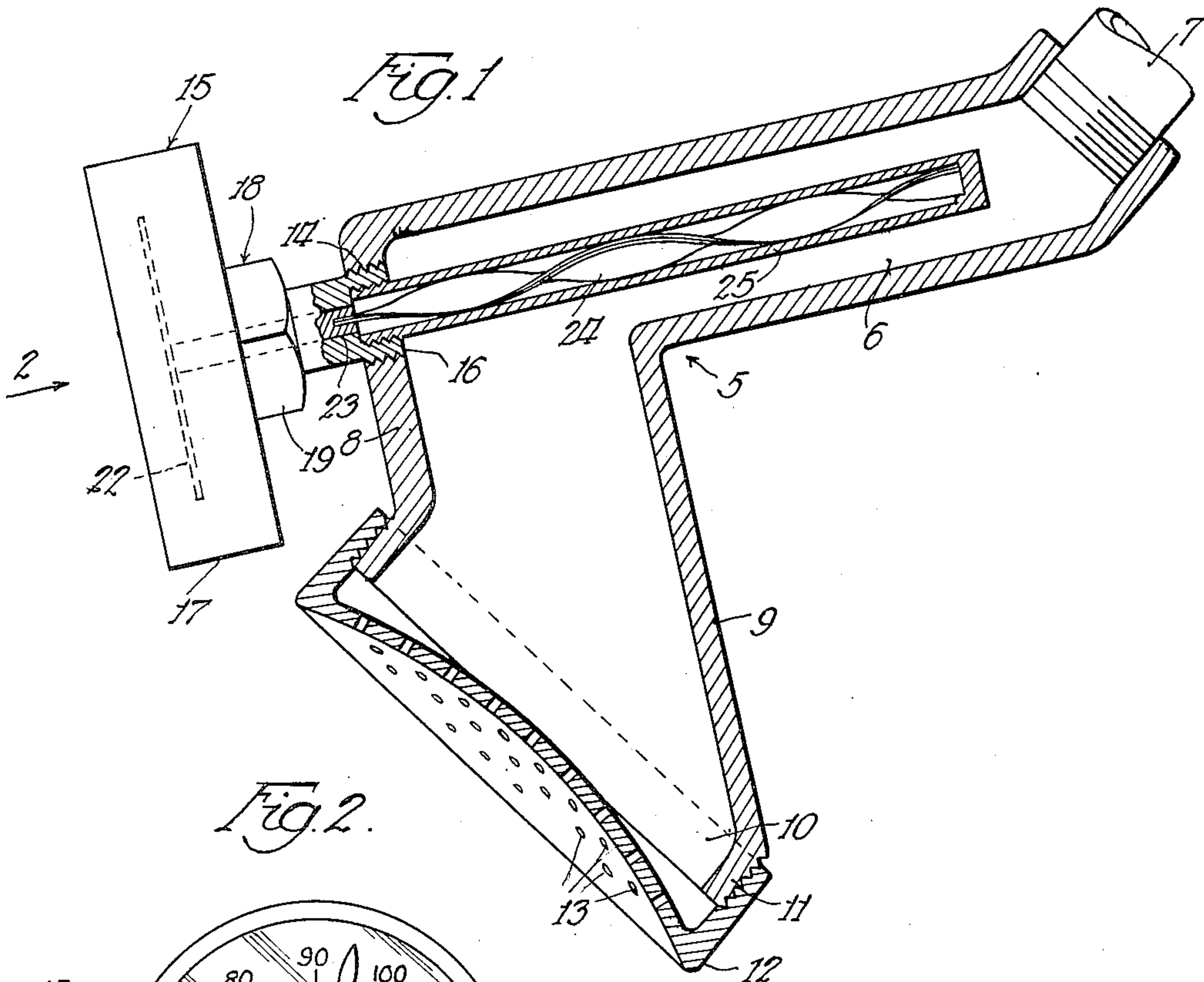
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SHOWER BATH SPRAY HEAD THERMOMETER

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SHOWER BATH SPRAY HEAD
THERMOMETER

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1 Claim. (Cl. 73—343)

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This invention relates to a combined shower bath spray head and temperature indicator and its principal object is to provide a spray head constructed and arranged to contain the actuating parts of a thermometer, so disposed within the spray head that the water must pass the actuating part on its passage to the nozzle, whereby the thermometer may accurately indicate the temperature of the water.

Another object of the invention is to provide an elongated chamber in the spray head for containing the bi-metal parts of a bi-metal thermometer, said chamber having a threaded inlet end whereby it may be screwed upon the water pipe and terminating adjacent the other end in a flaring discharge nozzle.

With these and other objects and advantages in view, this invention consists in the several novel features hereinafter fully set forth and claimed.

The invention is clearly illustrated in the drawing accompanying this specification, in which:

Fig. 1 is a central, vertical, longitudinal section through a shower bath spray head embodying a simple form of the invention, and

Fig. 2 is an end view thereof looking in the direction of the arrow 2 in Fig. 1.

Referring to said drawing the reference character 5 designates a chambered or angular fluid conducting body comprising an elongated cylindrical portion or leg 6 internally screw threaded at one end, whereby it may be screwed upon a water pipe 7 for furnishing hot or cold water or in mixtures thereof. The other end of the cylindrical portion 6 of the angular body extends into another leg portion which provides a discharge nozzle and is closed by an end wall 8, and from the lower side of the cylindrical portion, adjacent the end wall, projects a flared outwardly directed discharge nozzle 9 having a large discharge opening 10, surrounded by an externally threaded flange 11 upon which is threadedly secured a flanged and perforated cap 12, having a perforated wall 13 for the discharge of the water in the form of a spray. The entire body may be cast in one piece, either of metal or a thermo-plastic material.

In the end wall 8 is a hole 14 in which is secured a thermometer 15 which is mounted on the front of said body near the junction of the legs thereof and which is formed with a threaded nipple 16 threadedly secured in the hole 14. In the form of thermometer shown, it has a cylindrical case 17 from one end of which projects a boss 18 formed with a hexagonal part 19 to which a

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wrench or other suitable tool may be applied to screw the thermometer in place.

Secured within the case is a dial 20, upon which are displayed graduation marks 21, indicating the degree of temperature, said graduation marks being arranged in a circle around the center of the dial. Associated with the dial is an arrow or pointer 22 which is mounted on a spindle or shaft 23 journaled in the body of the case, and connected to a bi-metal strip 24 which extends axially within the leg 6 of said body which is contained in a tube 25 secured at one end in the nipple 16 and closed at its other end. One end of the bi-metal strip is secured to the closed end of the tube. Any of the standard and well known bi-metal thermometers of which the bi-metal part may be secured in the cylindrical chamber may be used. Under the application of heat thereto, the bi-metal part rotates the spindle 23 in a clock-wise direction, thereby rotating the arrow or pointer in the same direction across the dial whereby the temperature of the water passing through the body is indicated.

It is to be understood that the pipe 7 leads to and joins with valve controlled hot and cold water pipes (not shown) or to a mixing valve (not shown) to which hot and cold water pipes are connected, but as these parts form no part of the present invention they are not illustrated or described herein.

The device is usually installed at a point slightly above the head of a person of average height with the thermometer in full view. If the user desires a warm or tepid shower bath, he may turn on the hot and cold water and observe the temperature on the thermometer. To obtain the desired temperature the user manipulates the hot and cold water valves so as to add more or less hot or cold water as is necessary to obtain the required temperature.

Having thus described my invention, it is obvious that various immaterial modifications may be made in the same without departing from the spirit of my invention; hence, I do not wish to be understood as limiting myself to the exact form, construction, arrangement and combination of parts herein shown and described or uses mentioned.

What I claim as new and desire to secure by Letters Patent is:

A combined bath spray head and temperature indicator, comprising an angular fluid conducting body, one leg thereof being provided at one end with means for connection to a water pipe, the other leg terminating in a flared outwardly

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directed discharge nozzle, a perforated cap covering said discharge nozzle, a thermometer having a dial and pointer mounted on the front of said body near the junction of said legs, and having a bi-metallic thermal responsive element extending axially within the first leg of said body.

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