

No. 724,006.

PATENTED MAR. 31, 1903.

C. HAYNES.
SMOKE BELL.

APPLICATION FILED AUG. 11, 1902.

NO MODEL.

Fig. 1.

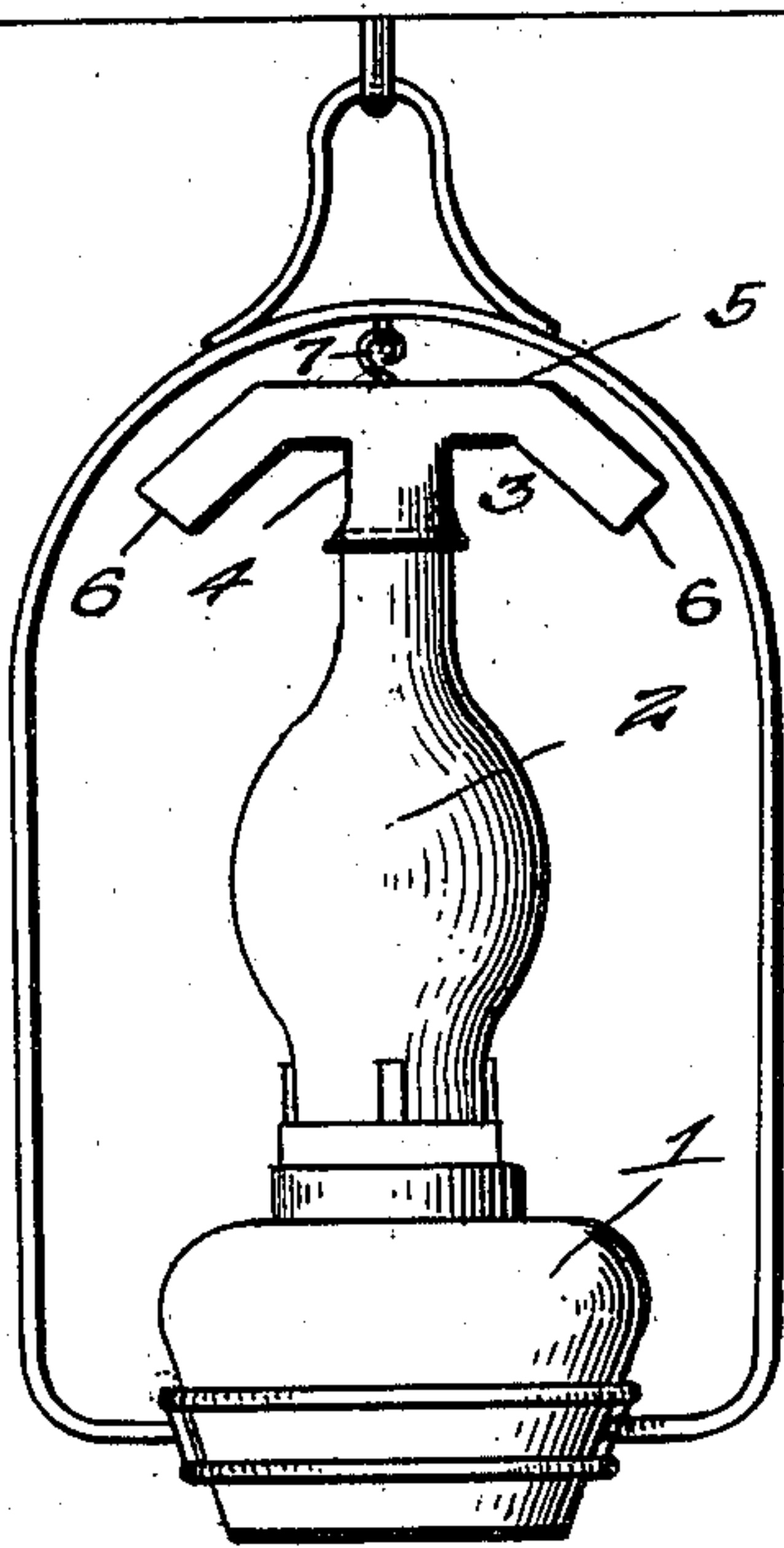
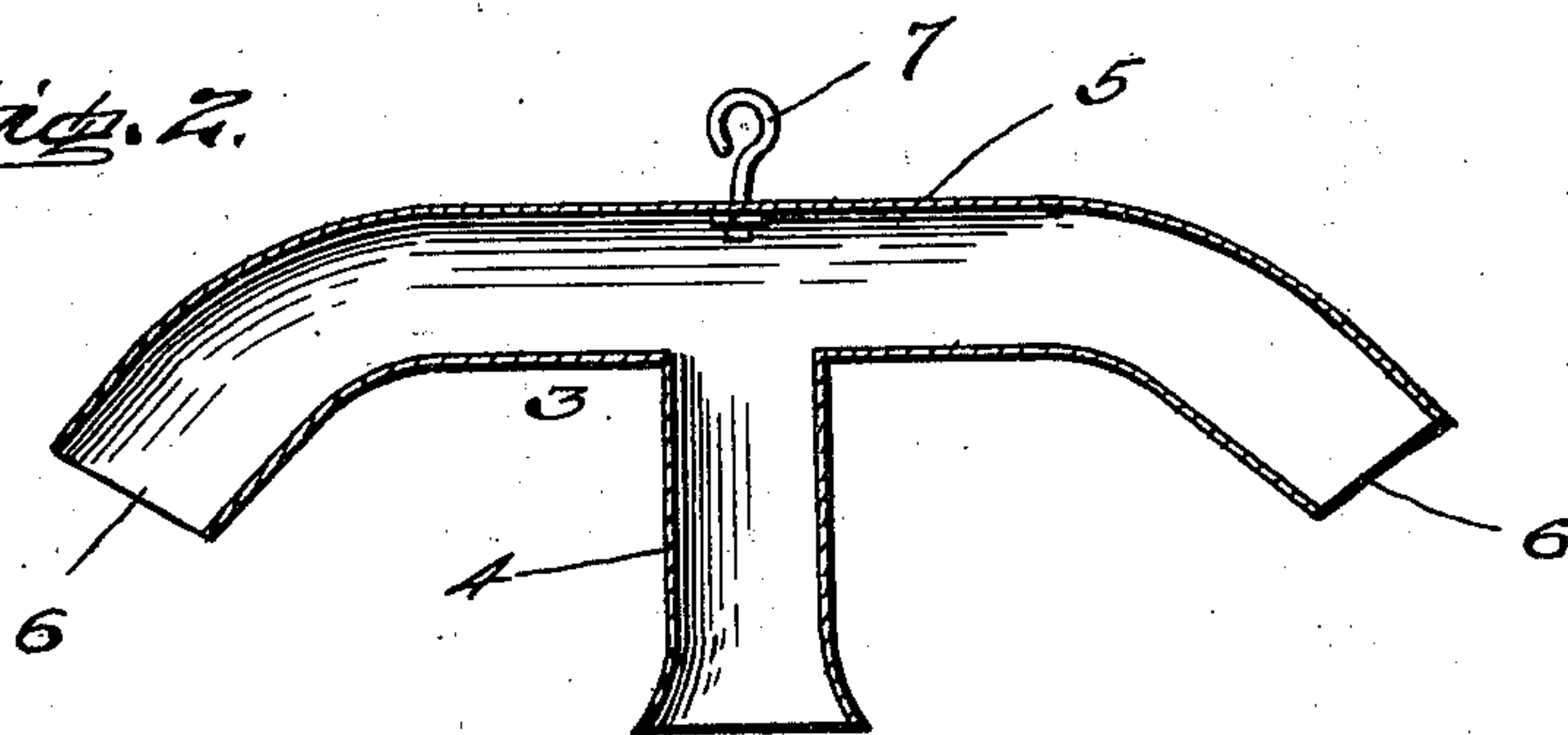


Fig. 2.



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UNITED STATES PATENT OFFICE.

COURTLAND HAYNES, OF HAWESVILLE, KENTUCKY.

SMOKE-BELL.

SPECIFICATION forming part of Letters Patent No. 724,006, dated March 31, 1903.

Application filed August 11, 1902. Serial No. 119,268. (No model.)

To all whom it may concern:

Be it known that I, COURTLAND HAYNES, a citizen of the United States, residing at Hawesville, in the county of Hancock and State of Kentucky, have invented certain new and useful Improvements in Smoke-Bells; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it ap-
10 pertains to make and use the same.

This invention relates to smoke-bells, and particularly to bells used in connection with swinging lamps; and the object of the invention is to provide such a device which will
15 effectually protect the ceiling from being smoked above the lamp.

Another object is to construct a smoke-bell in which the soot from the lamp will be collected and consumed.

20 A further object of the invention is to exclude from the lamp-chimneys insects and also prevent the flickering of the flame by sudden gusts of wind.

With the above and other objects in view, which will readily appear as the nature of the invention is better understood, said invention consists in certain novel features of construction and combination and arrangement of parts, which will be hereinafter fully
25 described and claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation showing the application of my device. Fig. 2 is a vertical longitudinal section of the same.

30 In the drawings, 1 denotes a lamp, and 2 the chimney thereof.

3 denotes the smoke-bell, which consists of a vertical tube or cylinder 4, having an outwardly-flaring mouth and connected at its
40 upper end with a horizontal tube 5, midway between the ends thereof.

The ends 6 of the tube 5 are inclined downwardly at an obtuse angle to the tube 5, forming discharge ends, which will direct the heat
45 from the lamp downwardly into the room and away from the ceiling.

7 denotes a hook or loop for suspending the bell from the ceiling or other place of attachment.

50 In use the bell is suspended wherever desired, and the lamp being immediately below

the same, with the chimney projecting into the lower flaring end of the tube 4, prevents any of the heat or smoke from escaping from the chimney except through the said tube, 55 the same passing from the tube 4 into the horizontal tube 5 and conducted in opposite directions to the discharge ends of the same, where it escapes and mixes with the atmosphere. The soot from the escaping smoke 60 adheres to the walls of the tube 5, where it is consumed by the heat from the lamp.

An advantageous feature of this bell is that it may be suspended close to the ceiling and the lamp placed immediately under the 65 same, as the top draft to the lamp is supplied through the tubes of the bell. This high hanging of the lamp is convenient in rooms having low ceilings.

From the foregoing description, taken in 70 connection with the accompanying drawings, it is thought that the construction and advantages of my improved smoke-bell will be readily apparent without requiring a more extended explanation. 75

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention. 80

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

A smoke-bell comprising a vertical draft-tube having its lower end flared to receive 85 the upper end of a lamp-chimney, a single-piece horizontal tube joined intermediately to the upper end of said vertical tube and having its ends curved downwardly at an obtuse angle thereto, and a suspending device 90 connected to the top of the single-piece horizontal tube at the center thereof and in line with said vertical tube, substantially as described.

In testimony whereof I have hereunto set 95 my hand in presence of two subscribing witnesses.

COURTLAND HAYNES.

Witnesses:

W. S. THOMAS,
FRANK HERZOG.