(No Model.)

W. FORD.

SMOKE BELL ATTACHMENT.

No. 341,899. Patented May 18, 1886.

Fig. 1.

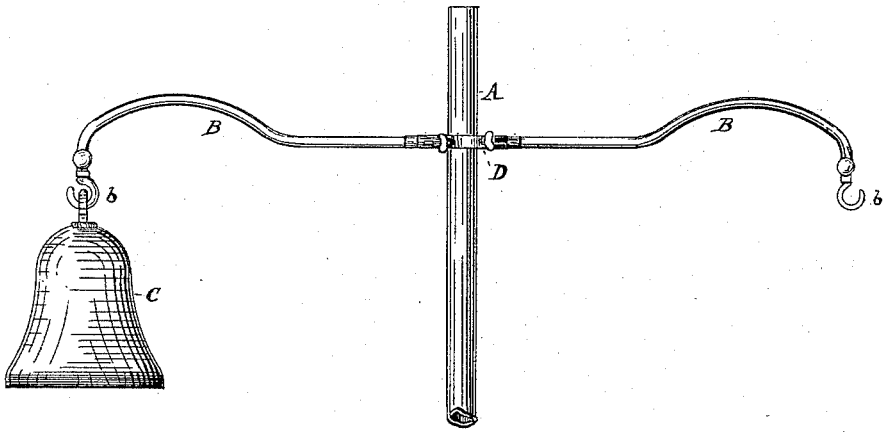


Fig. 2.

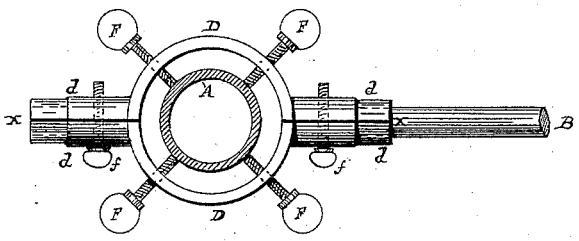


Fig. 3.

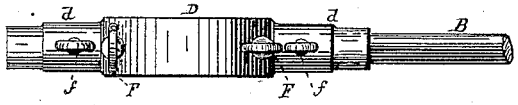
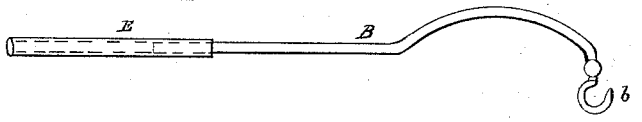


Fig. 4.



WITNESSES

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SMOKE-BELL ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 341,899, dated May 18, 1886.

Application filed March 16, 1885. Serial No. 159,024. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM FORD, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Devices for Attaching Smoke-Bells to Gasaliers, of which the following is a full, clear, and exact description, reference being had to the drawings forming a part of this specification.

My invention relates to an improved device for holding smoke-bells in place over gas-jets, and is designed to afford a simple and efficient apparatus that may be easily secured to the gasalier while in place, and adjusted securely to any size of drop-pipe, and held at any required height above the burners. It is also adjustable for different lengths of the arm or horizontal pipe of gasalier. I attain these objects by the device constructed as shown in the accompanying drawings, in which—

Figure 1 is a front elevation of my device secured to a gasalier drop-pipe. The arms and burners are omitted as not essential to show the application of the device. One smoke-bell is in place. Fig. 2 is a plan view, full size, of the central portion of the device, showing the means of securing it to the drop-pipe and the means of securing the horizontal rods to which the smoke-bells are attached. Fig. 3 is a side elevation of the above-mentioned central portion of the device. Fig. 4 is a side view of one of the horizontal rods of the device, showing method of adjusting it for length.

Similar letters refer to like parts throughout the several views.

A is the drop-pipe.

B B are the arms or horizontal rods of the smoke-bell device.

b b are the hooks for bells.

C is a smoke-bell.

D is the ring for attaching to drop-pipe. This is in two sections, (indicated by the heavy line X X.)

d d are tubular ends of clamping-ring D, for holding rods B B.

E is a tube, in which rod B can slide, making it adjustable for length.

F F, &c., are set-screws for securing ring D to drop-pipe A.

f f are small screws for holding the two parts of ring D together, and also holding rods B B in their sockets.

The device may be briefly described as consisting of a small metal ring, D, made in two portions having each a semi-tube at each end. These two parts when put together are secured by thumb-screws *f f*, and form a ring with two opposite and equal short tubular extensions. Four holes are bored into the ring D parallel with its plane and fitted with flat-headed set-screws F F. Two horizontal arms, B B, of suitable diameter to fit the sockets attached to the ring D, and this can vary slightly, are provided with hooks at one end, upon which the smoke-bells are to be hung. The form of these arms B B is of course a mere matter of fancy or adaptation to circumstances, and forms no part of my invention.

To render the device entirely self-adjustable, the arms may be made of two pieces, the outer one sliding in the other, which is tubular, as is shown in Fig. 4 at E.

The method of using my device is as follows: The screws *f f* are withdrawn, so that the ring D can be separated into two pieces, which are then placed around the drop-pipe of the gasalier, and the screws are again turned, so as to bring the parts of the ring D together. At the same time the arms B B are inserted, and the screws turned until they are held tightly. The screws F F are then turned until they press firmly against the drop-pipes and hold the ring and arms securely at any required height above the burners. The bells are hung on and the device is complete.

When desired, the arms B B can be made telescopic, as shown in Fig. 4, and the device can then be changed to fit any reasonable variation in spread of gasalier.

It is obvious that this device is equally applicable to chandeliers for kerosene-lamps or any other illuminating agents where smoke-bells are required.

Having now fully described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A device for attaching smoke-bells to gasaliers, consisting of a ring made in two parts, with clamping-screws for holding it together, and at the same time holding two arms

in place, in combination with the said arms, which are provided with hooks or other suitable device for the attachment of smoke-bells, the said ring also having set-screws for pressing against the drop-pipe of a gasalier, and thereby holding the whole device in place, all substantially as shown and described.

2. In a device for attaching smoke-bells to gasaliers, the combination of the ring D, in two parts, tubular sockets *d d*, clamping-screws *f f*, rods B B, and set-screws F F, substantially as shown, and for the purpose set forth.

3. In a device for attaching smoke-bells to gasaliers, the combination of the ring D, in two parts, tubular sockets *d d*, clamping-screws *f f*, set-screws F F, and adjustable arms B E, all substantially as shown, and for the purpose set forth.

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