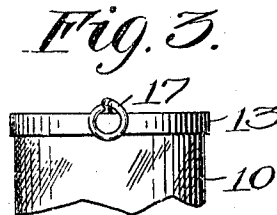
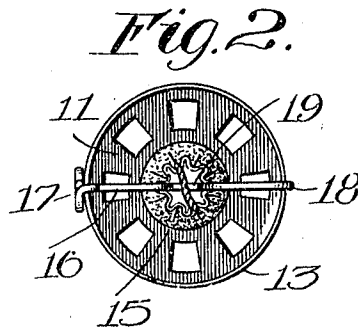
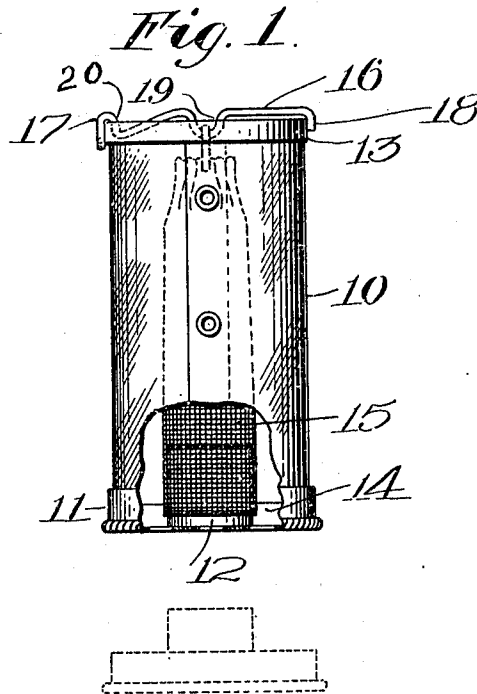


J. D. WARREN.
MANTLE SUPPORT.
APPLICATION FILED MAY 11, 1909.

953,161.

Patented Mar. 29, 1910.



Witnesses.

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UNITED STATES PATENT OFFICE.

JOHN D. WARREN, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO EUGENE MUNSELL
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MANTLE-SUPPORT.

953,161.

Specification of Letters Patent.

Patented Mar. 29, 1910.

Application filed May 11, 1909. Serial No. 495,311.

To all whom it may concern:

Be it known that I, JOHN D. WARREN, a citizen of the United States, residing at New York, borough of Manhattan, in the county of New York and State of New York, have invented a new and useful Mantle-Support, of which the following is a specification.

This invention relates to a mantle support for a chimney for incandescent gas burners and the like. It is particularly designed for that class of incandescent gas burner chimneys which are so constructed that they can be shipped and sold on the market with the mantle in place.

The principal objects of the invention are to provide such a chimney with a mantle support of such a character that while it is firmly held on the top of the chimney, yet it can be removed very readily from the chimney without materially disturbing the mantle and when a new mantle is applied can be lowered back on the chimney and firmly secured in position without injuring the mantle which, as is well known, is a very delicate article and must be handled with extreme care; also to provide a construction of the above mentioned character so made that it will rest or be supported on the top of the chimney without necessitating the use of perforations through the walls of the chimney or of any specially constructed chimney top and yet will be of such simple construction that the entire support can be made of a single piece of wire.

Reference is to be had to the accompanying drawings in which—

Figure 1 is a side elevation of a chimney constructed in accordance with this invention showing the mantle supported therein in position for use, and indicating the removable gallery in dotted lines. Fig. 2 is a plan of the same, and Fig. 3 is a fragmentary end elevation thereof.

In the drawings, the chimney 10 proper is shown as formed of pieces of mica or other transparent material and as being removably supported in a gallery 11 such as is well known in this art. This gallery of course is provided with a projection 12 to fit the gas burner and has gauze at the top thereof. When the chimney is formed of mica or other similar flexible material, the top and bottom preferably are provided with metallic strengthening rings 13 and 14, respectively. The bottom one is designed to fit

down into the gallery so as to hold the chimney firmly by friction.

In order to support the mantle 15 a wire bar support 16 is employed extending across the top of the chimney and resting on the upper ring 13. In order to construct this bar in an exceedingly simple manner in such a way that it can be supported on a chimney top without perforating the latter or providing it with any special means for holding the bar, the latter is shown as constructed in the following way. At one end it is provided with an integral transverse metallic ring 17 having a downwardly extending arm 20 spaced from it and constituting resilient means for removably securing it to the top of the chimney. At the other end it preferably has a downwardly projecting end 18 formed integral with the wire simply by turning the end of the wire down to form a hook. The bar preferably slants up from the bottom of the arm 20 to the top of the depression 19 so that the latter is on a line with the top of the chimney. At the center this bar is provided with a depression 19 on which the mantle is supported.

In applying the device the ring 17 is placed down over one edge of the chimney or its top supporting ring so the ring 17 and arm 20 on opposite sides of the chimney will resiliently grip the chimney and hold the support thereon. As the chimney preferably is made of a flexible material, as has been stated, it will be seen that the hook 18 at the other end can project over the opposite edge of the chimney and the natural resiliency of the latter will hold the chimney against this hook so that this end will also have a comparatively firm support. But on account of the resiliency of the ring and arm, and their close fit on the chimney, they support the bar and the hook 18 can be omitted. In this way it will be seen that when the mantle is to be removed this can be done without any danger of injuring the chimney and a new mantle can be applied to the bar or support and lowered into position in an exceedingly simple and convenient manner. Also in shipping the chimney with the mantle in position, as is frequently done, the cross bar is securely held in position on the chimney being prevented not only from moving longitudinally but also from swinging or any lateral movement. Therefore, a very firm and easily manipulated support

for the mantle is provided which can be applied to various forms of chimneys and which is an exceedingly simple and inexpensive form to manufacture and keep in order.

While I have illustrated and described a preferred form of the invention, I am aware that many modifications can be made in the same by a skilled mechanic without departing from the scope of the invention as expressed in the claims. Therefore, I do not wish to be limited to all the details of construction shown and described, but

What I do claim is:—

1. The combination with an open-topped chimney, of a mantle support comprising a bar formed of an integral piece of wire resting at its end on the top of the edge of the chimney entirely located substantially in the plane of the top of the chimney, and having an integral member comprising two strands of wire projecting downwardly from one end for engaging the outside of the chimney, and an integral member extending downwardly for engaging the inside of the chimney and clamping the edge thereof to the first named integral member.

2. As an article of manufacture, a support for holding a gas mantle on a chimney, comprising a wire bar having a vertical integral member at one end provided with two separated sides for engaging the outside of the chimney, and integral means extending downwardly from the top of said integral member spaced therefrom and parallel therewith for engaging the inside of the chimney, said bar extending from the bottom of said integral means substantially perpendicular

to the plane of said vertical member and substantially at the level thereof and having a hook on the opposite end for engaging over the edge of the chimney.

3. As an article of manufacture, a support for holding a gas mantle comprising a single bar having an integral vertical ring extending downwardly from one end in a plane at right-angles to the body of the bar for engaging the outside of the chimney, and a down-turned hook at the other end.

4. As an article of manufacture, a support for holding a gas mantle on a chimney, comprising a single bar having means near one end for engaging the inside of the chimney near the top, and means at the same end for engaging the outside of the chimney at two points on opposite sides of the point of engagement of the inside of the chimney, whereby the top edge of the chimney is clamped between said means and the bar is firmly held thereby.

5. As an article of manufacture, a support for holding a gas mantle on a chimney, comprising a bar having integral means near one end for engaging the inside of the chimney near the top, and integral resilient means at the same end for engaging the outside of the chimney at two points on opposite sides of the point of engagement of the inside of the chimney.

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

JOHN D. WARREN.

Witnesses:

E. M. ALLEN,
C. F. WESSON.