

(No Model.)

A. P. STORRS.
TRANSPARENT CHIMNEY.

No. 571,866.

Patented Nov. 24, 1896.

Fig. 1.

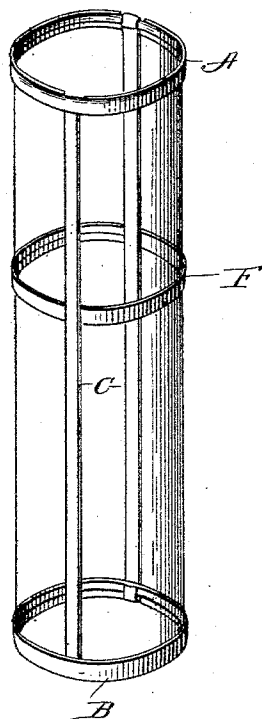


Fig. 2.

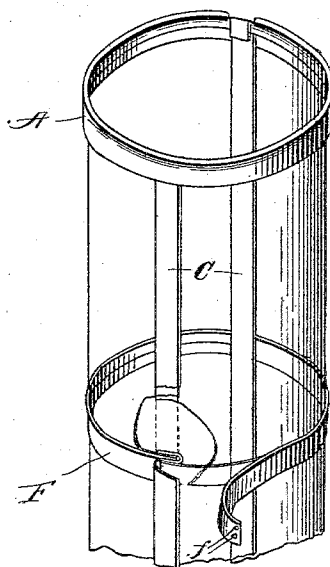
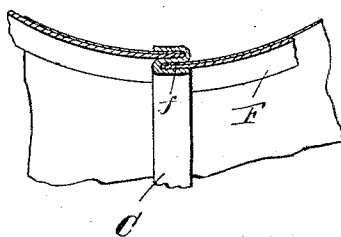


Fig. 3.



Witnesses:

J. M. Fowler
Thomas Duant

Inventor
Aaron P. Storrs
by Chas. O. Storrs
his Attorney

UNITED STATES PATENT OFFICE.

AARON P. STORRS, OF OWEGO, NEW YORK.

TRANSPARENT CHIMNEY.

SPECIFICATION forming part of Letters Patent No. 571,866, dated November 24, 1896.

Application filed October 29, 1895. Serial No. 567,299. (No model.)

To all whom it may concern:

Be it known that I, AARON P. STORRS, of Owego, in the county of Tioga, State of New York, have invented certain new and useful Improvements in Transparent Chimneys; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and to the letters of reference marked thereon.

This invention relates to improvements in transparent chimneys, and is more especially adapted for use in connection with the Welsbach burner, where it is highly desirable that the "mantle" should be closely enveloped by the chimney and that provision should be made for preventing the entry of dust or dirt at the top of the chimney.

In carrying the invention into practice I design to make use of thin sheets of mica, which are not liable to be broken; and the particular object of the invention is to enable relatively small sheets to be employed without obstructing the light from the burner to an appreciable degree, to which end the invention consists in certain novel details of construction and combinations and arrangements of parts which will now be described, and pointed out particularly in the appended claim.

Referring to the accompanying drawings, Figure 1 is a perspective view of a chimney constructed in accordance with my present invention. Fig. 2 is a sectional perspective, showing the manner of uniting the edges of the sheets of which the chimney is formed. Fig. 3 is a perspective view showing the manner of uniting the mica and horizontal binding-strips.

Like letters of reference in the several figures indicate the same parts.

The metallic frame of the chimney in the present instance is formed by top and bottom rings A B, which are suitably clamped on the edges of the mica constituting the chimney proper, and vertical standards or binders C, formed in cross-section of substantially S shape, adapted to clamp the edges of the sheets of mica which are inserted in said strips from opposite sides.

In the manufacture of these chimneys it

is found that only a very small quantity of mica is available in which the sheets are large enough to form a complete chimney, and hence in order to supply the demand it is necessary to employ sheets of mica of similar dimensions, and I preferably, therefore, employ two vertical binding pieces or strips C, located at diametrically opposite points, adapted to receive each one edge of the sheet which passes half-way around the chimney.

To enable sheets to be properly united one above the other to constitute an integral chimney which will not buckle and which will present a uniform appearance, I provide at the point where the sheets unite horizontally-arranged clamping strips or bands F, which overlie the joints and hold the mica in its exact position, so that there can be no possible warping or bending in use, so as to present a perfect and symmetrical appearance. The ends of these horizontal rings are clamped within the vertical binding-strips with the vertical edges of the sheets of mica, and in order to form an integral structure for preventing the slipping of the sheets of mica in any direction the ends of the horizontal binding-bands are provided with sharp studs or projections f, which, when the parts of the vertical binding-strips are clamped tightly together, will puncture the mica and hold the sheets with a firm grip.

In practice it is found preferable to form thin studs or projections by striking out portions of the body of the horizontal strips, but obviously any other well-known manner of forming projections to unite the sheets of mica at the points mentioned may be employed.

The vertical binding-strips in this chimney pass way through the top and bottom rings, which construction, except as hereinbefore specified, is in all respects similar to the chimney described in my prior application, Serial No. 548,424, and hence I do not deem it necessary to further describe the same herein.

Having thus described my invention, what I claim as new is—

In a chimney such as herein described, the combination with the top and bottom rings and the plurality of vertically-arranged binding-strips connecting said rings and having recesses on each side, of the independent

flexible sheets of transparent material arranged one above the other and having their vertical edges clamped in the recesses in the vertical binding-strips with their horizontal
5 meeting edges overlapped and in contact and the horizontally-arranged clamping-bands overlying the horizontal meeting edges of the sheets of transparent material with their ends confined in the recesses in the vertical

binding-strips and studs or projections on to said horizontal binding-bands for holding the sheets in fixed position; substantially as described.

AARON P. STORRS.

Witnesses:

ALEX. S. STEUART,
THOMAS DURANT.