

BAIRD & FISHER.

Lamp Chimney.

No. 106,247.

Patented Aug. 9, 1870.

FIG. 1.

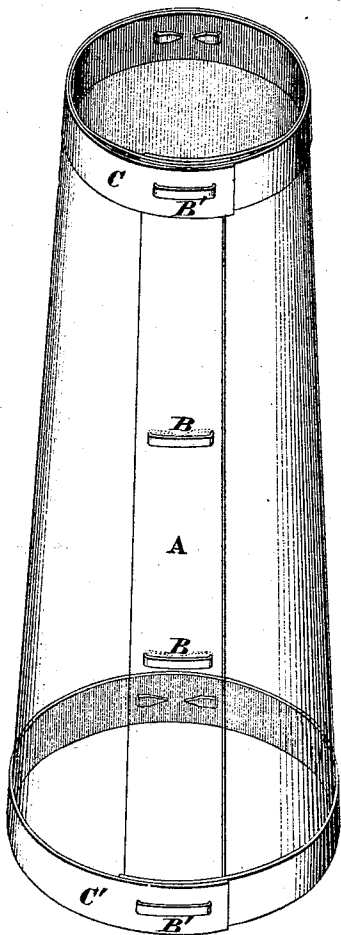


FIG. 3.

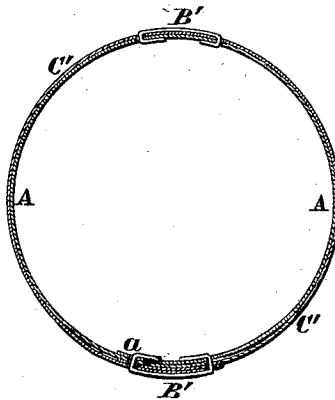
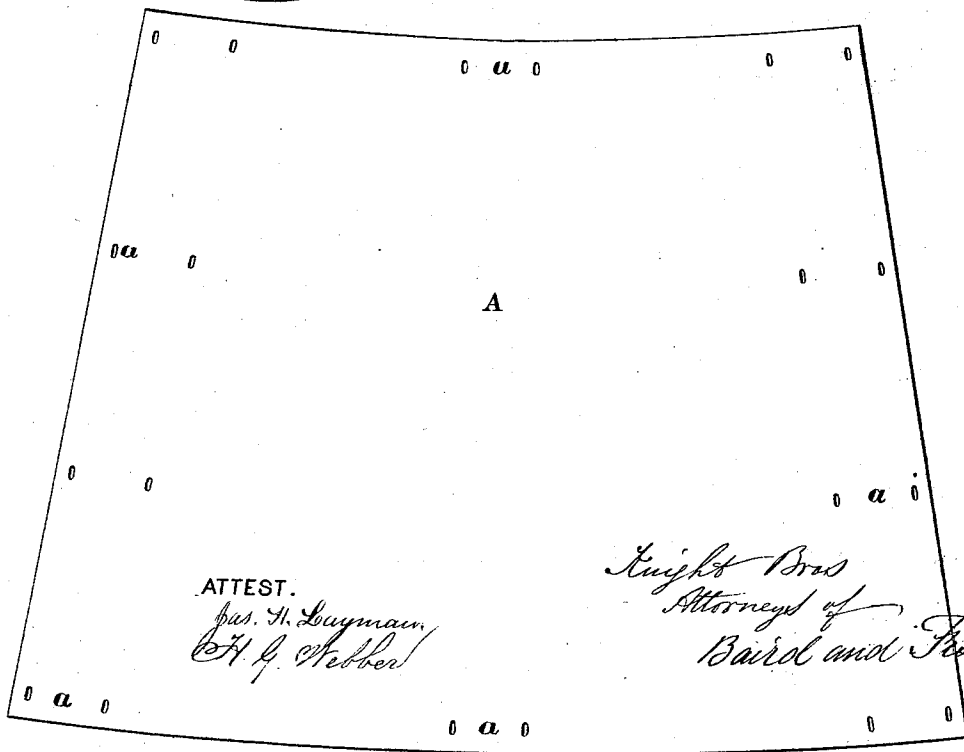


FIG. 2.



ATTEST.
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JOHN BAIRD AND WARREN FISHER, OF HAMILTON, OHIO.

IMPROVEMENT IN MICA CHIMNEYS FOR LAMPS.

Specification forming part of Letters Patent No. 106,247, dated August 9, 1870.

To all whom it may concern:

Be it known that we, JOHN BAIRD and WARREN FISHER, of Hamilton, Butler county, Ohio, have invented a new and useful Mica Chimney for Lamps, of which the following is a specification.

Our invention relates to an improved construction or manufacture of a lamp-chimney composed of a sheet of mica united into a conical form, and protected at its top and bottom edges by strips or bands of elastic sheet-brass.

In the drawings, Figure 1 is a perspective view of a lamp-chimney embodying our invention. Fig. 2 represents a sheet of mica cut to proper shape for one of our chimneys. Fig. 3 is a horizontal section through the lower band.

A, Fig. 2, represents a sheet of mica cut to the required form for a lamp-chimney, and A, Fig. 1, represents the same sheet bent into a conic frustum, and having its overlapped edges secured by clips B, of thin sheet-brass, which, being inserted through corresponding holes or slots, *a*, in the sheet of mica, are clinched inside the latter in the manner shown. The top and bottom edges of the mica are protected by bands C and C', of thin sheet-brass, which bands are secured to the mica by clips B', similar to the clips B, already described. It will be seen that the clips B B, each one passing through the mica in two places, hold the same very effectually to its proper circular form, and are not liable to be readily shifted or displaced, while the bands C C' effectually protect the top and bottom edges from fracture,

and also, although sufficiently elastic to fit snugly to their places, will return to their proper form when left at liberty. In fact, the entire chimney is elastic, the brass portions as well as the mica yielding to any pressure or blow, and returning to their proper form without fracture or defacement, while the very small surface covered by said brass portions does not materially detract from the transparent qualities of the chimney.

We have described the metallic portions of our chimney as made of brass; but it is evident that German silver or other metal might be employed.

We are aware that lamp-chimneys of mica have long been used, and that they have been strengthened with metallic bands; but our improved chimney is superior to those heretofore used, in having its strengthening-bands so constructed and applied that they will be as flexible as the mica itself, so that the whole chimney, and especially the base, may readily adapt itself to a burner of any form.

We claim as a new manufacture—

The mica lamp-chimney composed of a sheet of mica, A, united by the clips B B' and the bands C C', of elastic metal, in the manner set forth.

In testimony of which invention we hereunto set our hands.

JOHN BAIRD.
WARREN FISHER.

Witnesses:
GEO. H. KNIGHT,
ALEX. KING.