

H. J. WEED.

Chimney Cap.

No. 76,859.

Patented April 14, 1868.

Fig. 1.

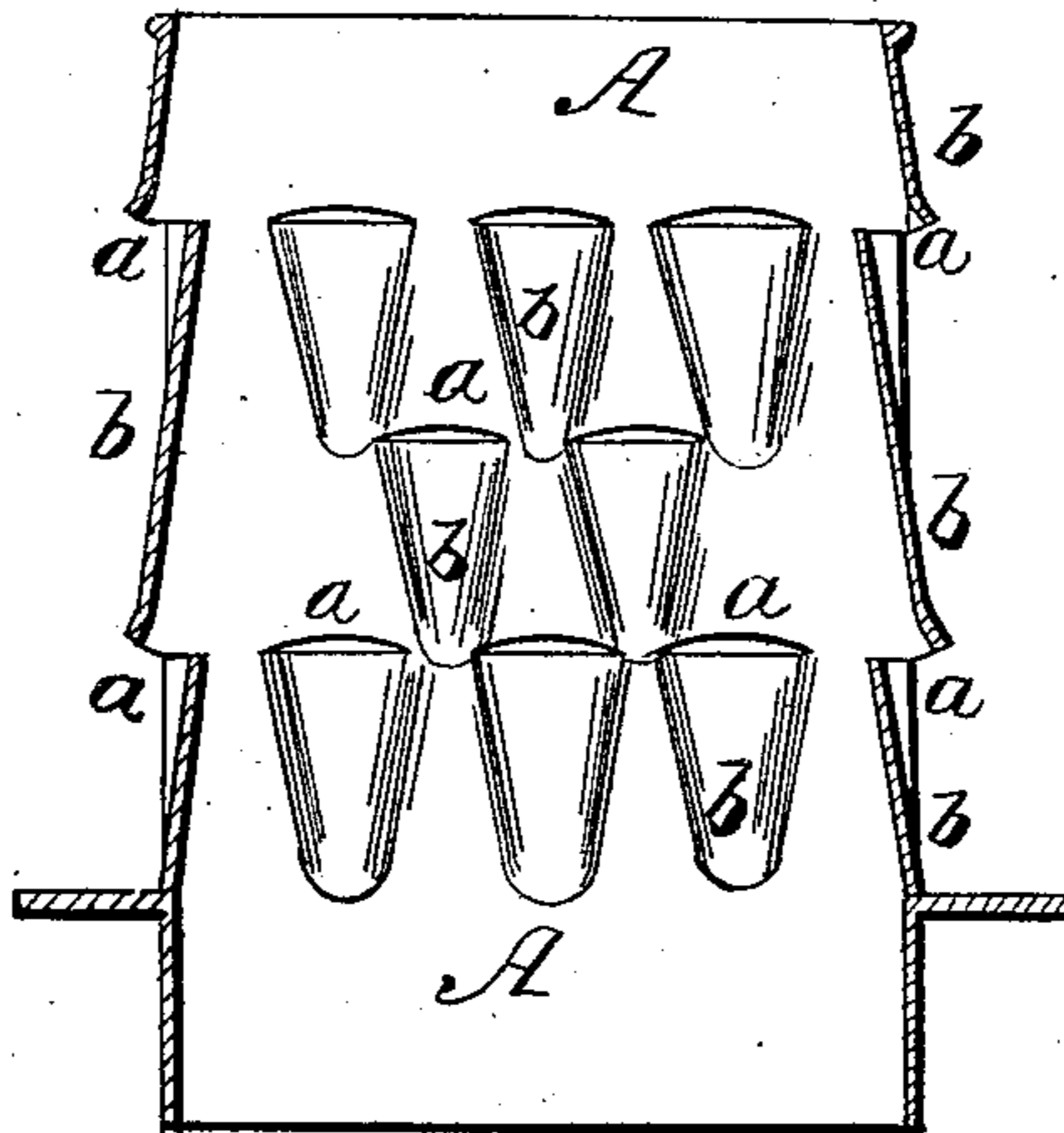
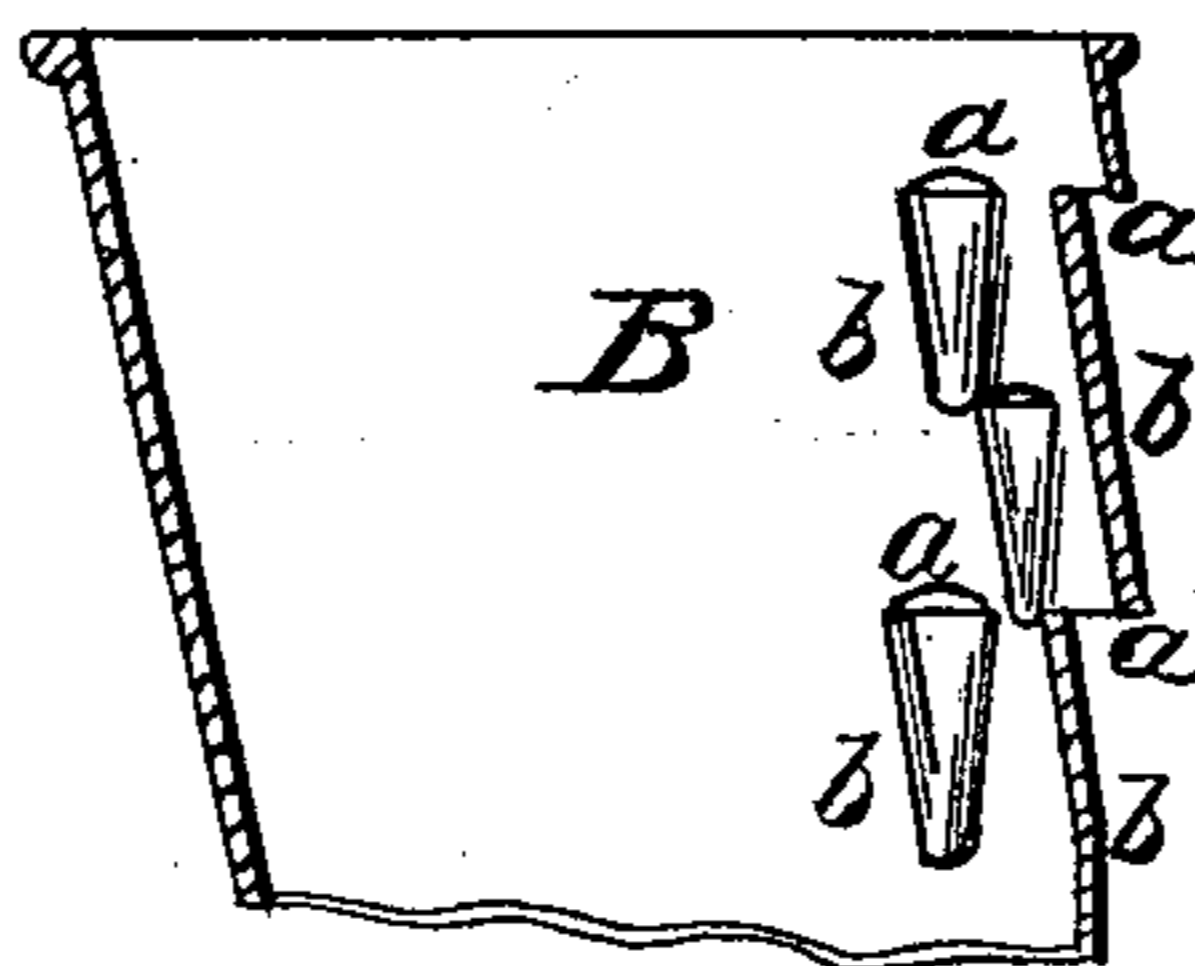


Fig. 2.



Witnesses.
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HENRY J. WEED, OF CAZENOVIA, NEW YORK, ASSIGNOR TO HIMSELF, E. S. CARD, AND F. CARPENTER.

Letters Patent No. 76,859, dated April 14, 1868.

IMPROVEMENT IN CHIMNEY-CAPS.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, HENRY J. WEED, of Cazenovia, in the county of Madison, and State of New York, have invented a new and improved Draught-Attachment to Chimneys; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figures 1 and 2 represent sectional elevations of my invention.

Similar letters of reference indicate corresponding parts.

This invention relates to a new manner of arranging metal chimney-caps, so that the draught will be facilitated by wind, and so that the free discharge of products of combustion is not obstructed.

The invention consists in slitting the sides of the metallic chimney-cap, and in bending the portion below each slit in, and that above each slit out, so as to transform the slits into elliptical apertures, through which the wind, as it strikes the inclined surfaces on the outside, enters the chimney, shooting upward, and thereby creating a powerful draught.

When the wind blows over the top of the chimney, a portion of the smoke escapes through the apertures, enabling the remainder to pass up more freely in the centre.

For locomotives, the smoke-stack is perforated in front in the aforesaid manner.

The air rushes through the apertures as the engine moves forward, causing a rapid upward current in the upper part of the smoke-stack.

If desired, the rear of a smoke-stack may also be perforated, to create a draught when the engine is backing.

Fig. 1 represents a sectional view of a chimney-cap, A, for buildings.

All the four sides are slit, as shown, by horizontal cuts, and the spaces between the slits are then struck up, so that they incline, as shown, the part above each slit being struck out, while the part below the slit is bent in, so as to transform the slits into elliptical holes *a a*.

The wind striking, from either side, the inclined surfaces *b b*, rushes up on the same, and enters the interior of the cap, creating a draught in the same. This cap may be of prismatic, cylindrical, oval, or other suitable shape, and is fitted in any suitable manner upon a chimney.

The size of the apertures *a*, and the distance between the same, may be varied at pleasure, and according to the height and dimensions of the chimney.

In fig. 2, the upper part of a locomotive or steamboat smoke-stack B is represented, provided on the front with apertures *a* and inclined surfaces *b*, as shown. These apertures may also be in rear or on the sides of the smoke-stack, if desired.

I claim as new, and desire to secure by Letters Patent—

Providing chimney-caps or smoke-stacks with two or more rows of draught-openings, arranged one above the other, the spaces between the openings being struck up to form inclines *b*, the part above said openings being struck out, and the part below struck in, whereby said openings are transformed into elliptical holes *a a*, as herein shown and described.

HENRY J. WEED.

Witnesses:

W. J. FLANAGAN,

E. S. CARD.