B. A. HENRIKSEN.

Chimney Top.

No. 50,356. Patented Oct. 10, 1865.

Fig. 1.

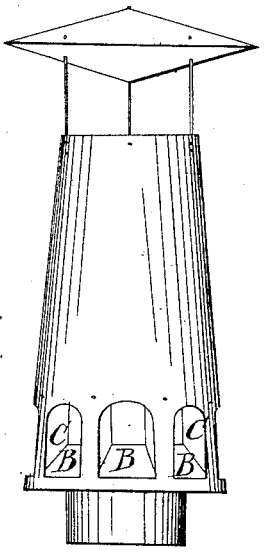



Fig. 2.

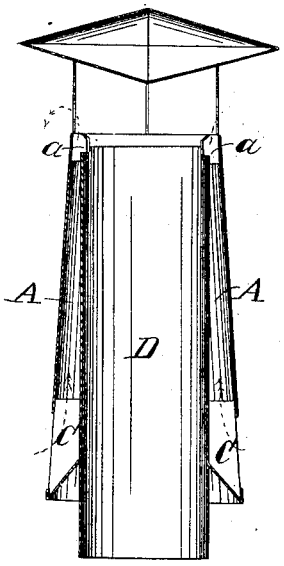



Fig. 3.

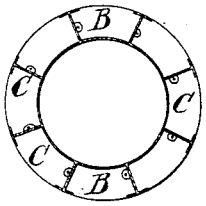



Fig. 4.

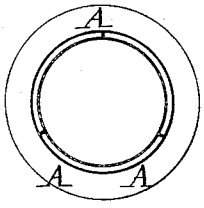
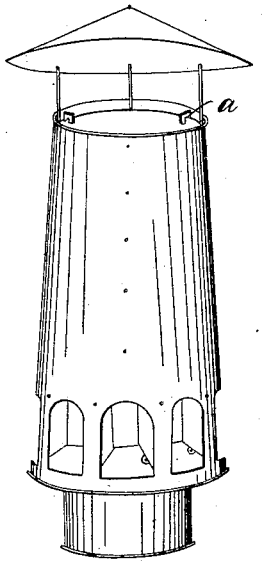



Fig. 5.




Witnesses:

M. F. Butler

E. Conway

Inventor:

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# UNITED STATES PATENT OFFICE.

BENJN. A. HENRIKSEN, OF SAN FRANCISCO, CALIFORNIA.

## CHIMNEY-TOP.

Specification forming part of Letters Patent No. **50,356**, dated October 10, 1865.

*To all whom it may concern:*

Be it known that I, BENJAMIN A. HENRIKSEN, of the city and county of San Francisco, in the State of California, have invented a new and improved mode of increasing the draft in any chimney, smoke-stack, or stove-pipe, and for ventilating purposes in buildings, outhouses, vessels, mines, vaults, and cellars; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The nature of my invention consists in combining the following elements in a ventilating chimney-top, whether of round or square form, made of iron, copper, brass, tin, wood, clay, slate, or other building material: first, an inner chimney of cylindrical shape; second, a conical jacket surrounding said chimney and tapering upward; third, apertures at or near the lower end of said jacket to admit air, which, passing upward through a gradually-contracting passage, is heated by contact with the sides of the chimney, and by being discharged above or at the top of the latter produces a powerful draft therein.

In the drawings, Figure 1, is a side elevation of a chimney-top illustrating my invention. Fig. 2 is a vertical section of the same. Fig. 3 is a horizontal section; Fig. 4, a top view with the cap removed, and Fig. 5 a perspective view.

Like letters indicate like parts in all the figures.

A represents the conical jacket, suspended by hooks *a a a* to a cylindrical chimney, D, in such position that the said jacket will, for nearly its entire length, surround the chimney, but will rise slightly above the top of the latter.

B B B represent the apertures through which external air enters at the lower end of the jacket, and C C C partitions employed to strengthen the lower part.

In operation, the air rushing in through the aperture B strikes the heated surface of the chimney D, is thereby rarefied, and ascends without interruption through the contracting space within the jacket, on issuing from which it forms a ring around the top of the chimney and rapidly carries off the smoke. The effect of this is to produce a powerful draft within the chimney.

The invention is applicable to chimneys, stove-pipes, smoke-stacks, and ventilators for the holds of vessels, mines, buildings, &c.

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

In combination with the cylindrical chimney D, the upwardly-tapering jacket A, provided with supporting-hooks *a a*, lateral openings B B, and partitions C C, and so applied that while projecting slightly above the top of the chimney D nearly its entire length will surround said chimney, all as herein described.

BENJAMIN A. HENRIKSEN.

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ELLA C. HANCOCK.