(No Model.)

E. M. HALLOCK.

SMOKE STACK FOR MARINE VESSELS.

No. 263,898. Patented Sept. 5, 1882.

Fig. 1

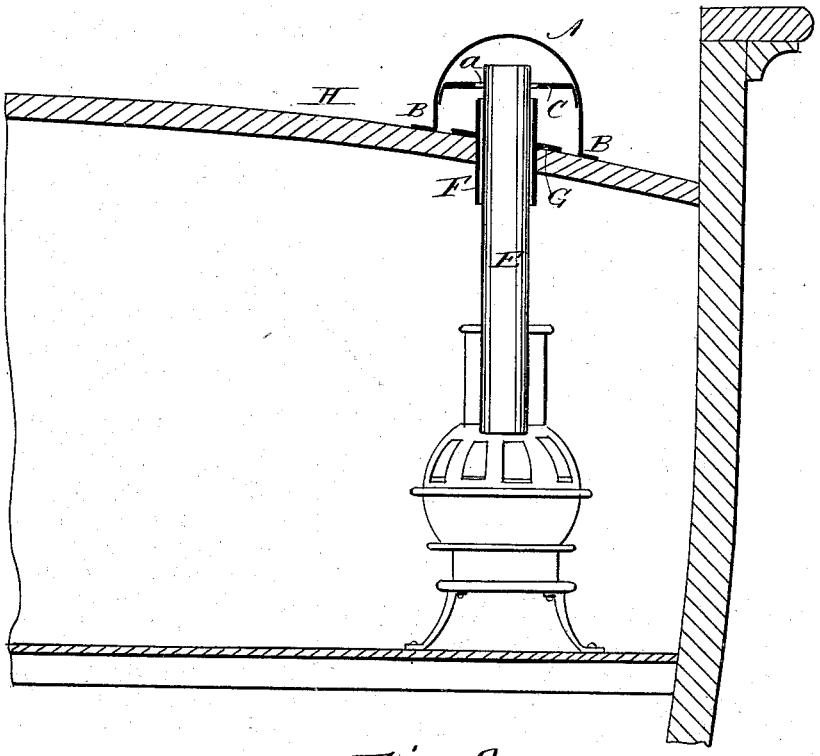
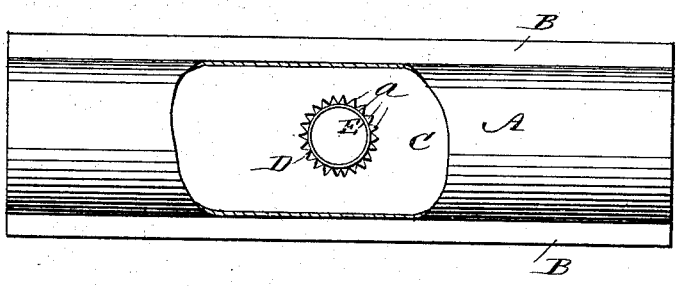


Fig. 2



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EDGAR M. HALLOCK, OF HUNTINGTON, ASSIGNOR TO HIMSELF AND JOSEPH W. DAVIS, OF PORT JEFFERSON, NEW YORK.

SMOKE-STACK FOR MARINE VESSELS.

SPECIFICATION forming part of Letters Patent No. 263,898, dated September 5, 1882.

Application filed March 31, 1882. (No model.)

To all whom it may concern:

Be it known that I, EDGAR M. HALLOCK, of Huntington, in the county of Suffolk and State of New York, have invented a new and Improved Smoke-Stack for Marine Vessels, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved smoke-stack for marine vessels which prevents backdraft and does not interfere with the sails and booms.

The invention consists in a longitudinal box adapted to be fastened on the deck of a vessel, which box is provided with a horizontal transverse partition having an aperture for receiving the upper end of the stove-pipe, the edge of this aperture being provided with teeth or serrations. The smoke passes into the upper part of the box, and is carried off at the ends of the same by the draft through the recesses between the serrations of the edge of the stove-pipe opening in the horizontal transverse partition in the box.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a cross-section of a part of a vessel, showing the improved smoke-stack in cross-section. Fig. 2 is a plan view of the smoke stack, parts being broken out.

A longitudinal box, A—that is, a box with a U-shaped cross-section—is secured inverted on the deck H, and is secured on the deck by means of screws or nails driven through the longitudinal bottom flanges, B, or by means of bands or clips passed over the box A, and secured on the deck. At or a short distance above the middle of its height the box A is provided with a transverse horizontal partition, C, extending throughout the length of the box A. This horizontal partition C is provided at or near its middle with an aperture, D, adapted to receive the upper end of the stove-pipe E, which passes into the upper compartment of the box A. The edges of the aperture D are serrated or provided with a series of tongues, *a*, which rest against the outer surface of the stove-pipe E. The stove-pipe E passes through a deck-pipe, F, provided with flanges G, resting on the deck, and of the usual construction to prevent the water that sweeps over the deck H from flowing down into the cabin on the outside of the pipe E. The smoke issuing from the top of the stove-pipe E passes into the upper compartment of the box A, and escapes at the ends of the same. The stove-pipe heats the air in the lower compartment of the box A, and creates a current of air, which, passing through the apertures between the tongues *a* from the lower into the upper compartment of the box A, creates a draft, which assists in carrying the smoke through the upper compartment of the box A, and is also assisted by the wind which passes through the box A. A backdraft cannot occur from whatever direction the wind may blow, and the smoke-stack never requires adjustment. It is out of the way, cannot be blown over, does not interfere with setting the sails, and it cannot be upset by being struck by a sail or boom. The box A is to be made of metal.

In place of the serrated edges of the opening D, a circle of small apertures may be arranged around the edges of this opening D, which apertures serve for the same purpose as the spaces between the tongues *a*.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A smoke-stack for marine vessels, made substantially as herein shown and described, and consisting of a longitudinal box adapted to receive the upper end of the stove-pipe, and provided with a transverse horizontal partition, as set forth.

2. In a smoke-stack for marine vessels, the combination, with the box A, of the horizontal transverse partition C, provided with an aperture, D, for the stove-pipe, substantially as herein shown and described, and for the purpose set forth.

3. In a smoke-stack for marine vessels, the combination, with the box A, of the horizontal transverse partition C, provided with an aperture, D, having the edges provided with serrations or tongues *a*, substantially as herein shown and described, and for the purpose set forth.

EDGAR M. HALLOCK.

Witnesses:

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