

(No Model.)

F. D. CHASE.
DECK IRON.

No. 527,663.

Patented Oct. 16, 1894.

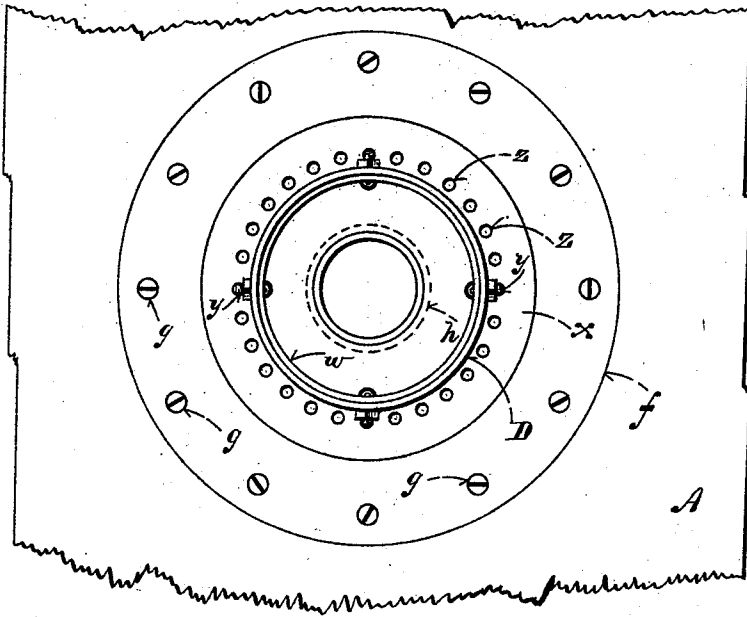


Fig. 1.

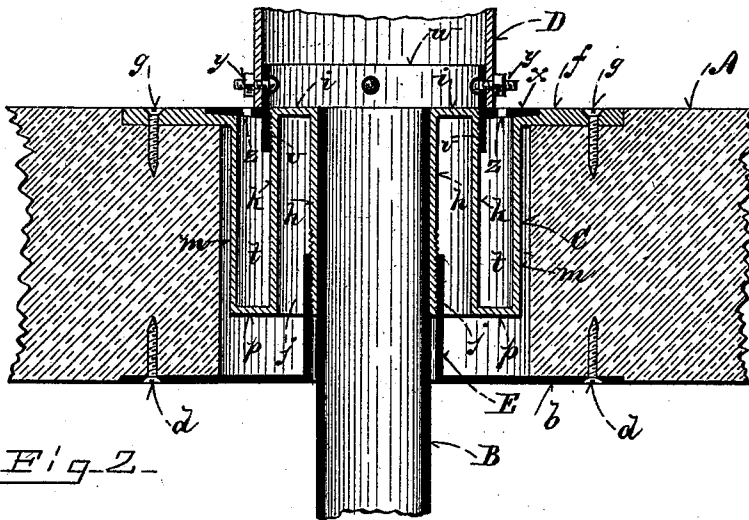


Fig. 2.

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DECK-IRON.

SPECIFICATION forming part of Letters Patent No. 527,663, dated October 16, 1894.

Application filed January 6, 1894. Serial No. 495,949. (No model.)

To all whom it may concern:

Be it known that I, FREDERIC DENIS CHASE, of Malden, in the county of Middlesex, State of Massachusetts, have invented certain new and useful Improvements in Deck-Irons, of which the following is a description sufficiently full, clear, and exact to enable any person skilled in the art or science to which said invention appertains to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a top plan view of a portion of a deck showing my improved deck-iron in position; and Fig. 2 a vertical transverse section of the same.

Like letters of reference indicate corresponding parts in the different figures of the drawings.

My invention relates especially to heat-insulating collars or deck-irons applicable for use in the decks of vessels or around stove-pipes, stacks and also in roofs and similar situations for protecting wood against charring and accidentally igniting.

The nature and operation of the improvement will be readily understood by all conversant with such matters from the following explanation.

In the drawings, A represents the deck through which an opening is made to receive a funnel, B, in the usual manner. The body, C, of the deck-iron is cylindrical and has an annular downwardly curved flange, *f*, formed integral therewith which is adapted to be set in flush with the deck around the funnel-opening and is held by screws, *g*. The central cylinder, *h*, is surrounded by a concentric cylinder, *k*, formed integral therewith the connection, *i*, being at the top. This leaves an air space, *j*, open at its bottom. A third or outer concentric cylinder, *m*, is integral with the second cylinder, *k*, the connection, *p*, being at the bottom and the flange, *f*, being formed on the upper edge of said outer cylinder. This leaves a chamber, *t*, for water, the mouth of said chamber opening on the deck and the water being received therein from slushing said deck.

In ordinary cases the stack, D, is fitted to

set tightly over the cylinder, *k*, but to make the parts more secure and afford better facilities for removing the stack as well as preventing the water chamber, *t*, from filling with debris I exteriorly screw-thread the middle cylinder, *k*, at, *v*, near its top and turn thereon an interiorly threaded collar, *w*, which has a radiating annular flange, *x*, covering the top of said chamber and being let into the body flange, *f*, as shown in Fig. 2, so that the surface is flush with the surface of the deck.

The stack, D, is secured by bolts and nuts, *y*, to the collar, *w*. The flange, *x*, of said collar is provided with a series of perforations or holes, *z*, opening into the chamber, *t*, to admit water.

To render the device applicable for decks or roofs varying greatly in thickness I exteriorly screw-thread the inner cylinder at, *r*, and turn a collar, E, thereon, said collar being provided with a flange, *b*, equivalent to the flange, *f*, and which is secured to the under face of the deck by screws, *d*. By means of this collar adjustable on the body, the deck may be clamped securely between the flanges, *b*, *f*.

The heat from the flue, B, is insulated from reaching the wood of the deck, A, by the air chamber, *j*, and the water in the chamber, *t*, substantially prevents any heat whatever being imparted to the wood, affording practically perfect insulation in a manner which will be readily understood by those conversant with such matters without a more explicit description.

It will be further understood that in decks or roofs of ordinary thickness I do not employ the collar, E, as the body, C, of the iron is of sufficient length to project entirely through said deck.

Having thus explained my invention, what I claim is—

1. A deck-iron comprising a central cylinder fitted to receive the flue, a second cylinder inclosing the first cylinder and forming an air-chamber therewith and the outer cylinder forming a water chamber opening on the deck surface and provided with a flange for attaching the iron to said deck.

2. A deck-iron comprising an inner cylinder—

der threaded to receive an attaching collar a collar turned thereon, a second and outer cylinder respectively forming an inwardly opening air-chamber and an outwardly opening
5 water-chamber, said outer cylinder being provided with an attaching flange.

3. In a deck-iron, the body, C, forming chambers, *j*, *t*, in combination with the screw-

collar, *w*, having a flange, *x*, closing the chamber, *t*, and provided with the perforations 10 opening into said chamber.

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Witnesses:

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