

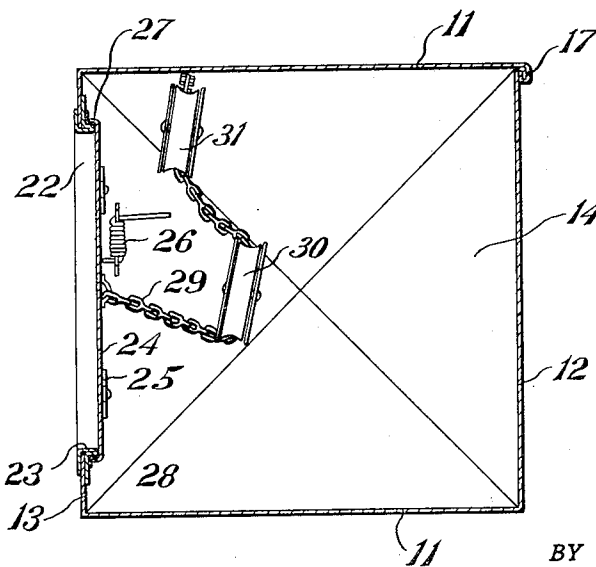
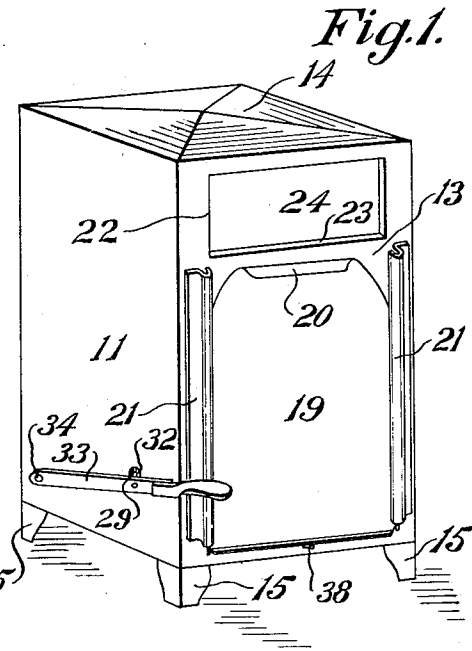
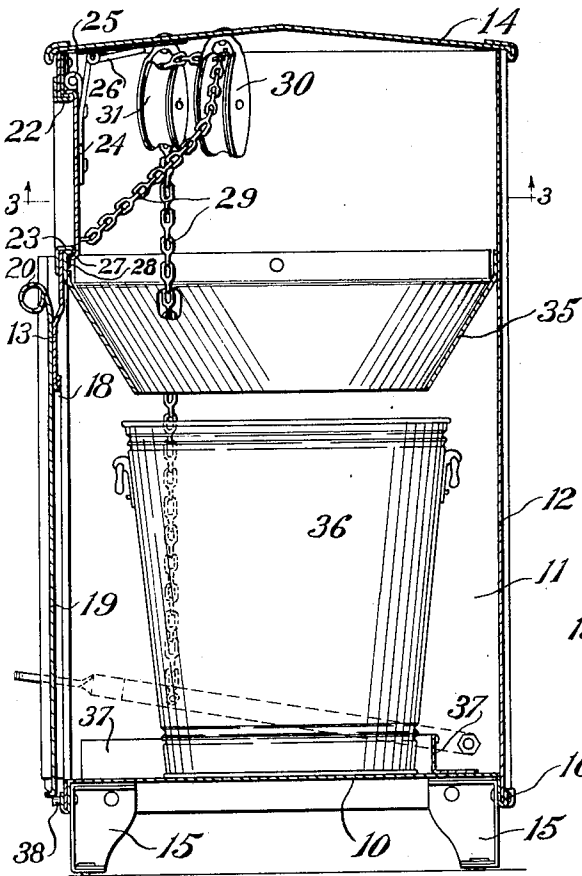
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DUSTPROOF ASH CONTAINER

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1,937,337

DUSTPROOF ASH CONTAINER

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Application July 3, 1931. Serial No. 548,564

2 Claims. (Cl. 220—36)

The invention relates to containers for receiving ashes, and more particularly to a container which is dustproof, whereby the cellar or basement may be kept free from dust caused by removing ashes.

The object of the improvement is to provide a dustproof ash container having a receiving door adapted to be manually opened to receive ashes and arranged to automatically close and seal itself instantly.

A further object is to provide a container of this character which is fireproof, whereby danger of fire by placing the container near to any wooden structure in the cellar or basement is eliminated.

A still further object of the improvement is to provide such a container which is of simple and durable construction, inexpensive to manufacture, and easily and readily operated.

The above and other objects which will be apparent from an inspection of the accompanying drawing, and the following detail description, or which will be hereinafter referred to, may be attained by providing a sheet metal air-tight container adapted to house an ordinary ash can, means being provided in the bottom of the container for spacing the ash can from the walls of the container; feet being formed upon the container for raising the same above the floor; there being a door in one side wall of the container to provide for entry and removal of the ash can; a door opening being formed in the container above the top of the ash can and adapted to be normally closed by a swinging door hinged at its upper edge and arranged to be sealed when in closed position, said door being adapted to be opened by means of a treadle operatively connected to said swinging door by a flexible member; spring means or the like being provided for normally urging the swinging door into closed position and holding it sealed; there being a funnel within the container above the top of the ash can, so as to direct all of the ashes into the ash can.

An embodiment of the invention is illustrated in the accompanying drawing in which

Figure 1 is a perspective view of the improved ash container;

Fig. 2 is an enlarged vertical sectional view through the container; and

Fig. 3 is a transverse sectional view taken as on the line 3—3, Fig. 2.

Similar numerals refer to similar parts throughout the drawing.

The container to which the invention pertains

may be in the form of a rectangular housing including the bottom wall 10, side walls 11, back wall 12, front wall 13, and top wall 14. The container is preferably spaced above the floor as by the feet or legs 15, in order to prevent any fire hazard by the same coming in contact with a floor of wood or the like.

The bottom, front, side and top walls of the container are imperforate as shown, and connected together as by the locked joints 16 and 17, so as to provide an entirely air-tight construction.

The front wall 13, is provided in its lower portion with a door opening 18, adapted to be normally closed as by the sliding door 19, formed of sheet metal and having a rolled bead or the like 20, at its upper end serving as a hand grip by means of which the door may be manually raised and lowered within the guide members 21, which are also preferably formed of sheet metal and spot welded or otherwise attached to each side of the front wall 13.

A door opening 22, is formed in the upper portion of the front wall, and is of suitable size and shape to permit an ordinary coal shovel to be inserted therethrough. This upper door opening is preferably provided around its edges with the annular flanges 23, and a door 24 is hinged at its upper edge adjacent to said door opening as indicated at 25 and provided with spring means or the like, as shown at 26 for normally holding the door in closed position.

This upper door is provided around its edges with the annular flanges 27, adapted to engage over the inturred flanges 23, surrounding the door opening, a resilient or compressible packing material 28, preferably surrounding said door opening so as to produce a tight seal around the edges of the door 24.

For the purpose of manually opening the door 24, a chain or other flexible member 29 is connected to the lower edge portion of the door and extends upward around the pulleys 30 and 31, suspended from the top wall 14, and then downward within the container and through an opening 32, in the adjacent side wall 11, near the lower end thereof, being attached to the treadle 33, which is fulcrumed at its rear end, as at 34, to the adjacent side wall 11, the free end of said treadle extending beyond the front side of the container, whereby the operator may place his foot upon the treadle and thereby open the door 24, against the pressure of the spring 26.

A funnel 35, is provided in the container being connected to the front, side and back walls

thereof just below the door opening 22, the lower end of said funnel terminating just above the top of the ash can 36, which may be of any usual and ordinary construction, said funnel being of slightly less diameter at its lower end than the upper end of the ash can, and preferably circular so that it will feed all of the ashes charged through the door opening 22, into the ash can 36.

Flanges 37, are extended upward from the bottom wall 10, preferably parallel to the side walls 11, and back wall 12, and spaced therefrom, as shown in Fig. 2, thereby properly positioning the ash can 36 centrally within the container and spaced from all vertical walls thereof, so as to prevent overheating of the walls of the container in order to eliminate fire hazard by contact of the container with any wooden or other inflammable structure.

In the operation of the container, the door 19 may be raised to permit insertion of the ash can, which may be of the usual construction as illustrated, or any desired type of round or square or other shape ash can. The door 19, is then closed and as each shovelful of ashes is removed from the ash pit of the furnace, the operator will depress the treadle 33, momentarily opening the door 24 at the same time he inserts the shovel through the door opening 22, throwing the ashes through the funnel 35, from which they are deposited into the ash can 36. At the same instant the operator should remove his foot from the treadle 33, permitting the door 24 to be quickly closed by the spring means 26, sealing the same to prevent dust from the ashes from passing out of the container. Each time the door is opened and the shovel of ashes inserted, an inwardly directed draft of air is created which assists in preventing the escape of dust until the closing of the door 24.

For the purpose of stopping the door 19 in closed position, a lug or stud 38 may be provided

in the adjacent side wall of the housing to contact with the lower edge of the door.

This application is a continuation in part of my prior application for patent upon Ash receptacles, Serial No. 230,779, filed November 3, 1927.

I claim:

1. An ash container including a housing, an ash receptacle located in the lower portion of the housing, a door opening in one side of the housing above the ash receptacle, a normally vertical door normally closing said door opening and hinged at its upper edge to the housing adjacent to the upper edge of the door opening, spring means for normally urging the door to closed position, a treadle mounted upon the lower portion of the housing, pulley means within the upper portion of the housing, and a flexible member connected to the inner side of the door and located over said pulley means and connected to said treadle for inwardly opening said door.

2. An ash container including a housing, an ash receptacle located in the lower portion of the housing, a door opening in one side of the housing above the ash receptacle, a normally vertical door normally closing said door opening and hinged at its upper edge to the housing adjacent to the upper edge of the door opening, spring means for normally urging the door to closed position, a treadle mounted upon the lower portion of the housing, pulley means within the upper portion of the housing, a flexible member connected to the inner side of the door and located over said pulley means and connected to said treadle for inwardly opening said door, a second door opening in the lower portion of the housing to permit removal of the ash receptacle and a vertically sliding door normally covering said second door opening.

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