N. A. SWANSON.

ASH PAN.

APPLICATION FILED APR. 21, 1919.

1,315,259.

Patented Sept. 9, 1919.

2 SHEETS—SHEET 1.

Fig. 1.

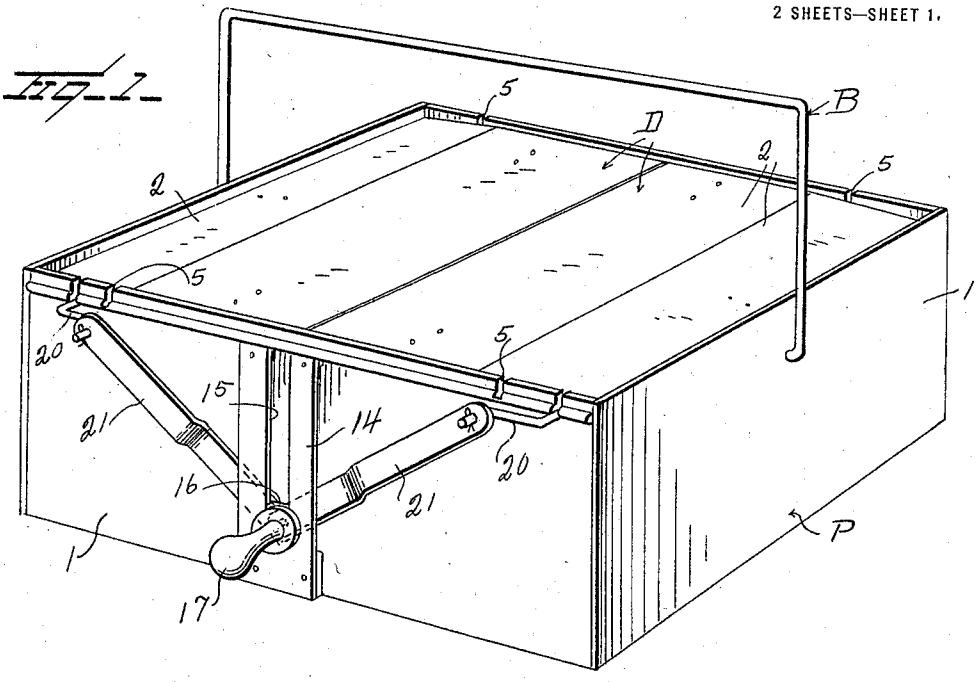


Fig. 4.

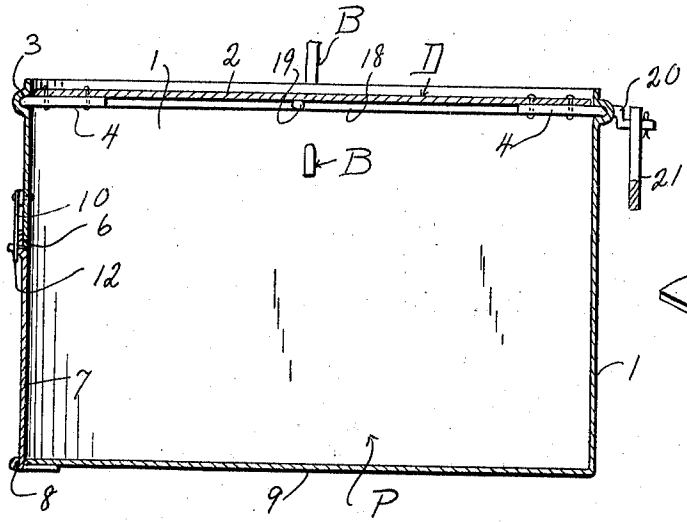
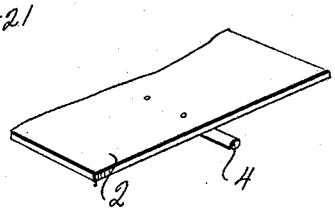


Fig. 5.



Inventor

N. A. Swanson

By Watson E. Coleman

Attorney

THE COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

N. A. SWANSON.

ASH PAN.

APPLICATION FILED APR. 21, 1919.

1,315,259.

Patented Sept. 9, 1919.

2 SHEETS—SHEET 2.

Fig. 2.

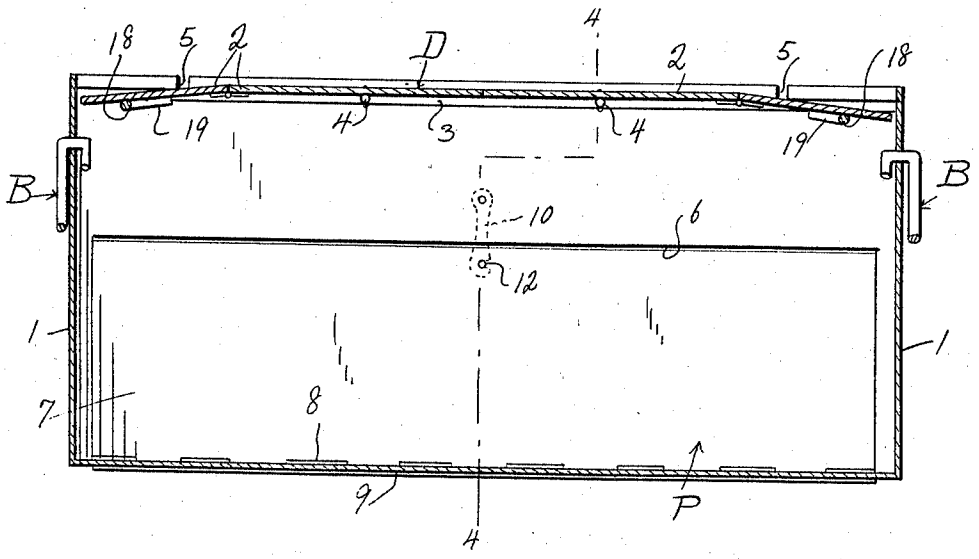
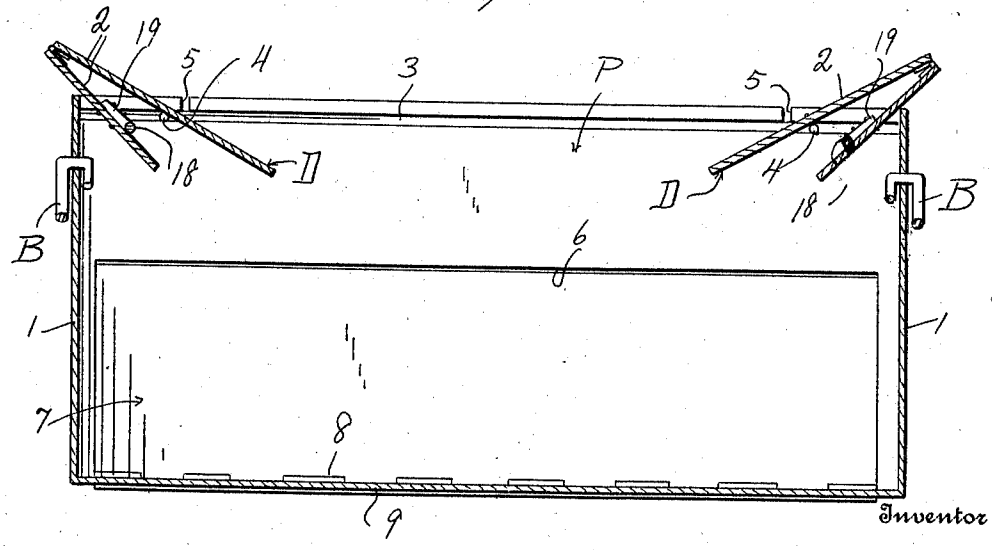


Fig. 3.



Inventor

N. A. Swanson

By Watson E. Coleman

Attorney

UNITED STATES PATENT OFFICE.

NELS ANDREW SWANSON, OF ROCK ISLAND, ILLINOIS.

ASH-PAN.

1,315,259. Specification of Letters Patent. Patented Sept. 9, 1919.

Application filed April 21, 1919. Serial No. 291,789.

To all whom it may concern:

Be it known that I, NELS A. SWANSON, a citizen of the United States, residing at Rock Island, in the county of Rock Island and State of Illinois, have invented certain new and useful Improvements in Ash-Pans, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to certain improvements in ash pans, and it is an object of the invention to provide a device of this general character having novel and improved means whereby the pan may be effectually closed to prevent the flying of dust or the like when the pan is removed from the ash pit.

It is also an object of the invention to provide a novel and improved pan of this general character having a foldable cover for the top thereof, together with means whereby said cover may be moved into open or closed position.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved ash pan whereby certain important advantages are attained and the device rendered simpler, less expensive and otherwise more convenient and advantageous for use, as will be hereinafter more fully set forth.

The novel features of my invention will hereinafter be definitely claimed.

In order that my invention may be the better understood, I will now proceed to describe the same with reference to the accompanying drawings, wherein:

Figure 1 is a view in perspective of an ash pan constructed in accordance with an embodiment of my invention;

Fig. 2 is a vertical sectional view taken transversely of the pan as illustrated in Fig. 1;

Fig. 3 is a sectional view similar to Fig. 2 but showing the closure members or covers in open position;

Fig. 4 is a sectional view taken substantially on the line 4—4 of Fig. 2; and

Fig. 5 is a fragmentary view in perspective of a panel of one of the closure members or covers as herein included.

As disclosed in the accompanying drawings, P denotes a pan of desired configuraton and dimensions and which comprises the marginal flanges 1. The side marginal flanges have pivotally engaged therewith a bail B to facilitate the carrying of the pan when the occasions of practice so require.

Coacting with the upper or open face of the pan P is a pair of closure members or doors D, and, as herein disclosed, each of said closure members or doors D comprise two hingedly connected panels 2 with the outer panel hingedly connected with the upper marginal portion of a side flange 1. The outer panel 2 during an opening movement of the closure member or door D swings upwardly while the second or inner panel 2 has swinging movement in the opposite direction or in a direction to overlie the inner face of the outer panel 2.

The front and back marginal flanges 1 adjacent their upper edges have disposed therealong the grooves 3. The sides of the inner panel 2 of each of the closure members or doors D has extending outwardly and laterally therefrom substantially midway thereof the pins 4 or the like which are slidably engaged within the grooves 3, so that when the outer panel 2 is thrown upwardly, the requisite folding or unfolding movement of the panels 2 will be accomplished and which also maintains the panels in their extended or closing position. Each of said grooves 3 has in communication therewith an entrance slot 5 to facilitate assemblage.

The rear marginal flange 1 has its lower portion cut away substantially the entire length thereof to afford a discharge opening 6 which is normally closed by the upwardly swinging door 7 hingedly connected as at 8 with the bottom 9 of the pan P. The portion of the rear marginal flange 1 substantially midway thereof has pivoted therewith a hook member 10 which overlies the door 7 when in closed position and engages a keeper 12 or the like extending from the outer face of the door 7.

The opposite or front marginal flange 1 substantially midway its length is provided with a vertically disposed plate 14 provided with the vertically directed slot 15 through which is disposed a slide 16 adapted for movement lengthwise of the slot 15. The slide 16 is provided with an outstanding knob 17 or the like to afford means whereby the same may be conveniently engaged by the digits of a hand to impart the requisite movement to the slide 16.

Rotatably supported by the upper marginal portion of the front marginal flange 1

adjacent each end thereof and below an outer panel 2 of the closure member or door D is a shaft 18 having its inner end provided with a crank 19 pivotally engaged with said outer panel 2 while the outer end portion of the shaft 18 is provided with a second crank 20. The outer end portion of the crank 20 is pivotally engaged with an end portion of a rigid arm 21. The opposite end portion of the arm 21 is pivotally engaged with the slide 16 so that when upward movement is imparted to the slide 16, the panels 2 of each of the closure members or doors D will be caused to fold and swing outwardly to open the top of the pan P, and whereby downward movement of the slide 16 will cause the closure members or doors D to assume a closed position.

In practice, the closure members or doors D are not intended to be opened until after the pan P has been properly inserted within the ash pit or box of a stove. By having the slide 16 coacting with the forward marginal flange 1 of the pan, the requisite opening of said members or doors D may be readily accomplished. When it is desired to remove the pan, the slide 16 is moved downwardly to close said members or doors D. The bail B permits the pan to be readily transported as required, and to empty the contents of the pan, it is only necessary to open the door 7.

From the foregoing description, it is thought to be obvious than an ash pan constructed in accordance with my invention is particularly well adapted for use by reason of the convenience and facility with which it may be assembled and operated, and it will also be obvious that my invention is susceptible of some change and modification without departing from the principles and spirit thereof and for this reason I do not wish to be understood as limiting myself to the precise arrangement and formation of the several parts herein shown in carrying out my invention in practice except as hereinafter claimed.

I claim:

An ash pan having one face open, a pair of closure members coacting with said open face of the pan, each of said closure members comprising hingedly connected panels, the outer panel of each of the closure members being hingedly connected with the pan and the inner panel of each of said members having sliding engagement with the pan, a slide carried by the pan and having movement toward and from the open face thereof, a shaft rotatably supported by the pan adjacent each of the outer panels and having a rock arm engaged with said panel, said shaft having a second rock arm, and an arm pivotally engaged with each of the second named rock arms and pivotally engaged with the slide for imparting swinging movement to said outer panel, the sliding connections of the inner panels with the pan causing the panels of each of the closure members to overlie when the outer panel is moved into open position.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

NELS ANDREW SWANSON.

Witnesses:
WM. ATKINSON,
G. D. BARRITT.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."