July 2, 1929. D. W. BINNS 1,719,357

STOVE

Filed March 31, 1928

Fig. 1.

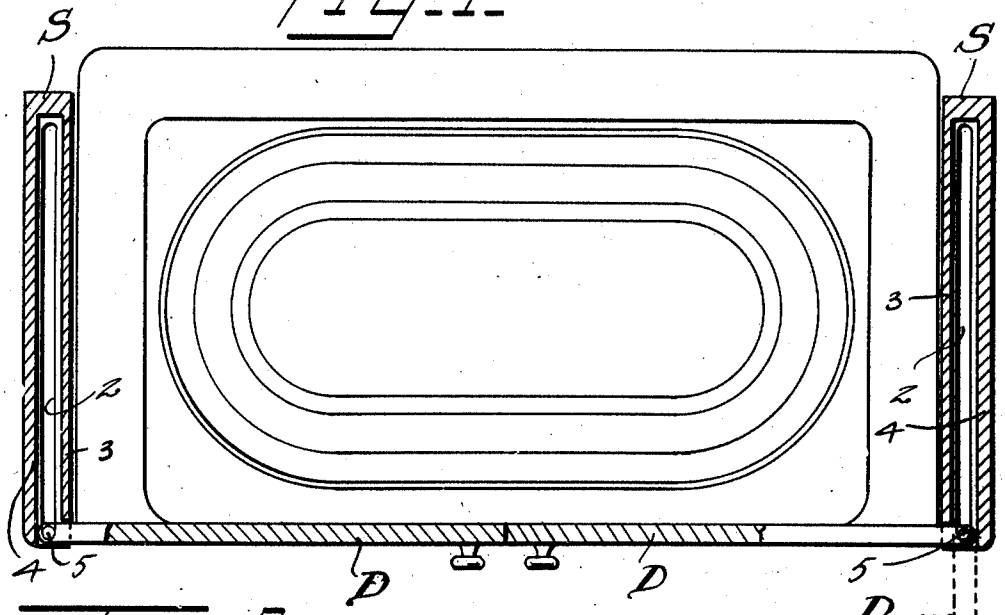


Fig. 2.

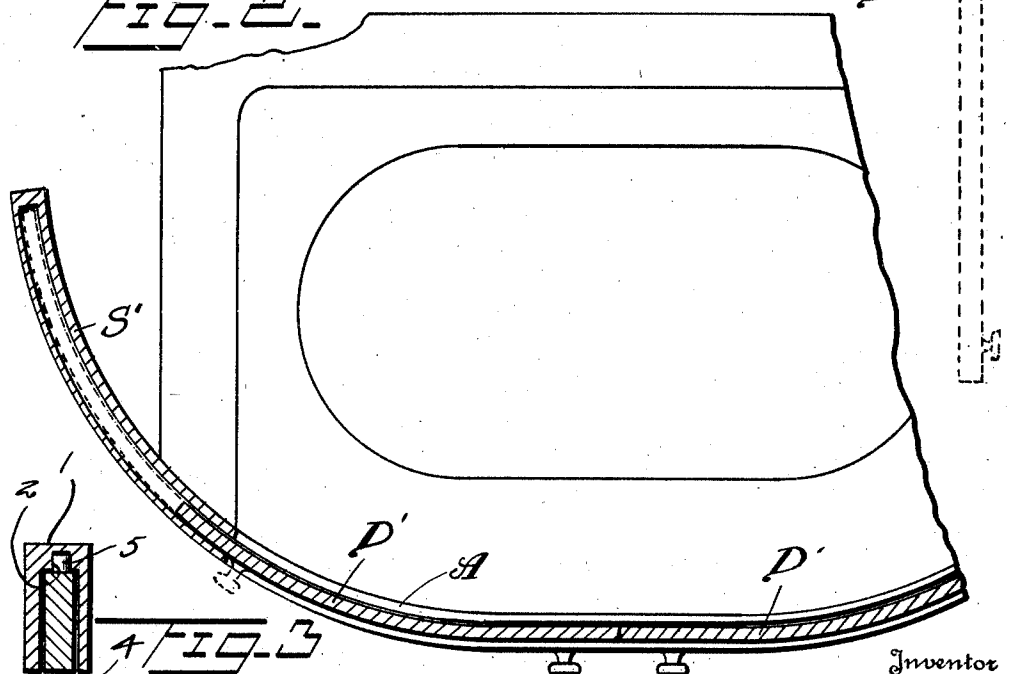


Fig. 3

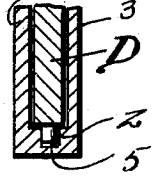
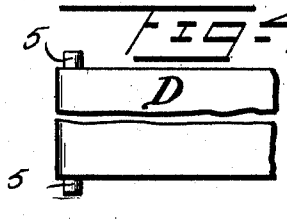


Fig. 4.



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UNITED STATES PATENT OFFICE.

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STOVE.

Application filed March 31, 1928. Serial No. 266,349.

This invention relates to stoves and it is an object of the invention to provide a device of this kind wherein is provided a structure to permit the use of doors disappearing when in open position so that the same may be entirely out of the way.

The invention consists in the details of construction and in the combination and arrangement of the several parts of my improved stove 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 drawing, wherein:—

Figure 1 is a horizontal vertical sectional view illustrating a stove constructed in accordance with an embodiment of my invention, a second position of one of the doors being diagrammatically indicated by broken lines;

Figure 2 is a fragmentary horizontal sectional view illustrating another embodiment of my invention;

Figure 3 is a vertical sectional view through one of the door housings shown in Figure 1;

Figure 4 is a fragmentary view in elevation of one of the doors.

As disclosed in Figure 1 of the drawing, the stove at each side of the ash pit is provided with a double wall structure or housing S provided in the opposed faces of its top and bottom walls 1 with the longitudinally disposed grooves or channels 2. The forward end of the structure or housing S is open and the inner wall 3 of said structure or housing at the open end thereof terminates a slight distance inwardly of the adjacent end of the outer wall 4.

The structure or housing S is adapted to receive a door D for the ash pit or the like, said door at its rear end being provided with the upwardly and downwardly disposed rounded lugs 5 engaged within the grooves or channels 2. When the door D is in its fully extended position, as indicated by broken lines in Figure 1, the lugs 5 provide pivot members to permit the door to be swung into fully closed position and by having the inner wall 3 at the outer end of the housing or structure S terminating inwardly of the adjacent end of the outer wall 4, said inner wall 3 offers no hindrance or obstruction to the door when swung closed.

In the embodiment of the invention as particularly illustrated in Figure 1, each of the doors D cannot be moved into or caused to disappear within its associated structure or housing S until after the door has been swung outwardly on an arc of substantially ninety degrees.

In the embodiment of the invention as illustrated in Figure 2, an arrangement is disclosed especially designed for use in connection with circular heaters and arranged at each side of the door opening A is an arcuate structure or housing S and which is adapted to readily receive an arcuate door D′ when moved or slid into open position.

From the foregoing description it is thought to be obvious that a stove 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:—

1. In a stove having a door opening, a relatively flat casing arranged at each side of the stove and having an open edge arranged adjacent one side of the door opening, a door member designed to be snugly slidably received in each casing and when drawn therefrom to overlie a portion of said opening, each of said casings having the inner face of the top and bottom walls thereof provided with a longitudinally extending groove, and pin members projecting from the top and bottom edges of the doors designed to be slidably received in the grooves.

2. In a stove structure having a door opening, a relatively flat casing arranged at each side of the stove and having one vertical side edge open and positioned adjacent the side of the door opening, each of said casings further having its inner side wall terminated

inwardly of the open edge to direct the open edge laterally toward the door opening, door members each designed to be slidably, snugly received in a casing and when in closed position having one edge extending through the lateral portion of a casing opening to the interior thereof, and pin members projecting from the top and bottom edges of each door member slidably engaged in guide grooves formed in the inner faces of the top and bottom walls of the door receiving casing.

In testimony whereof I hereunto affix my signature.

DOUGLAS W. BINNS.