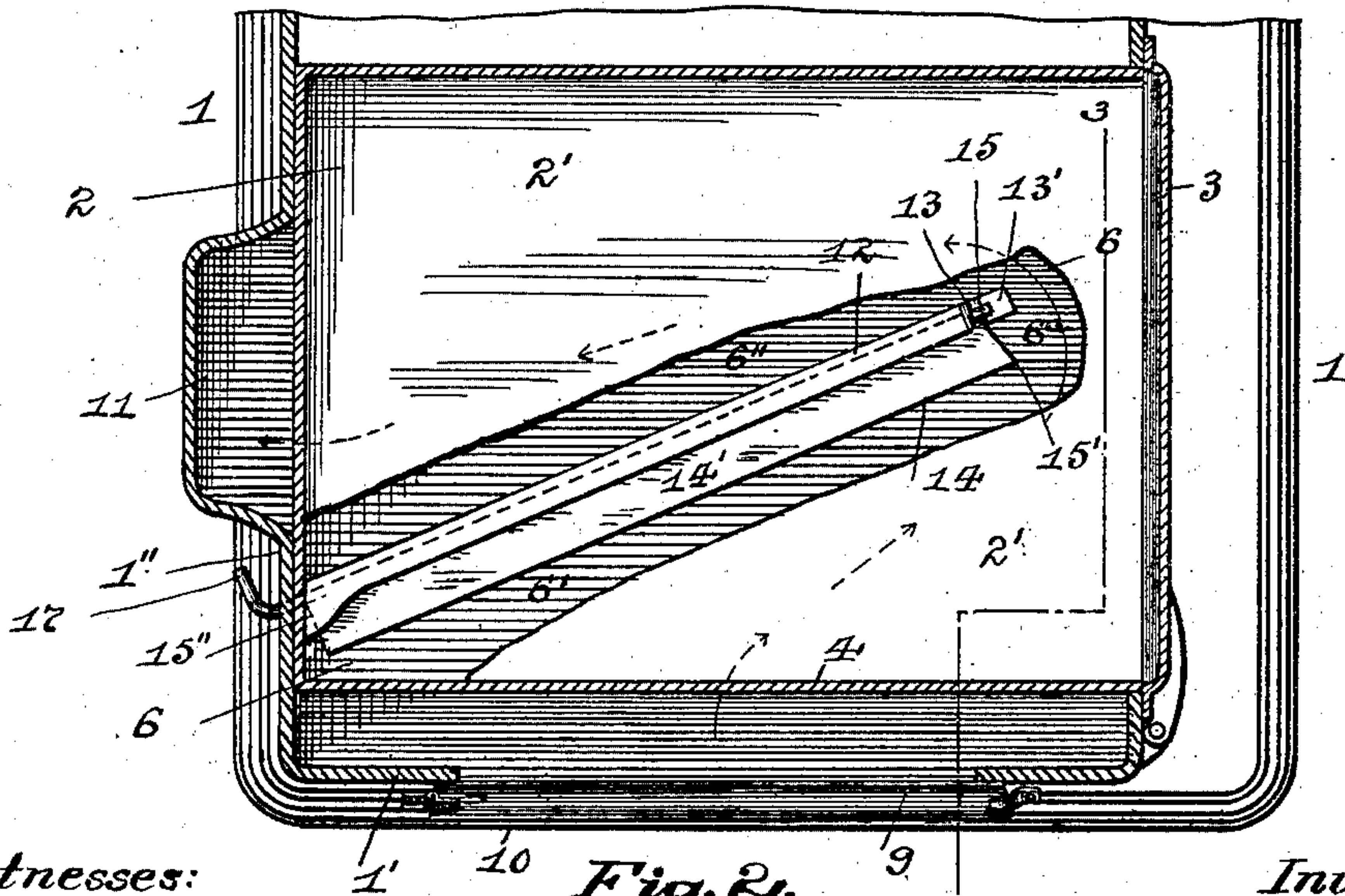
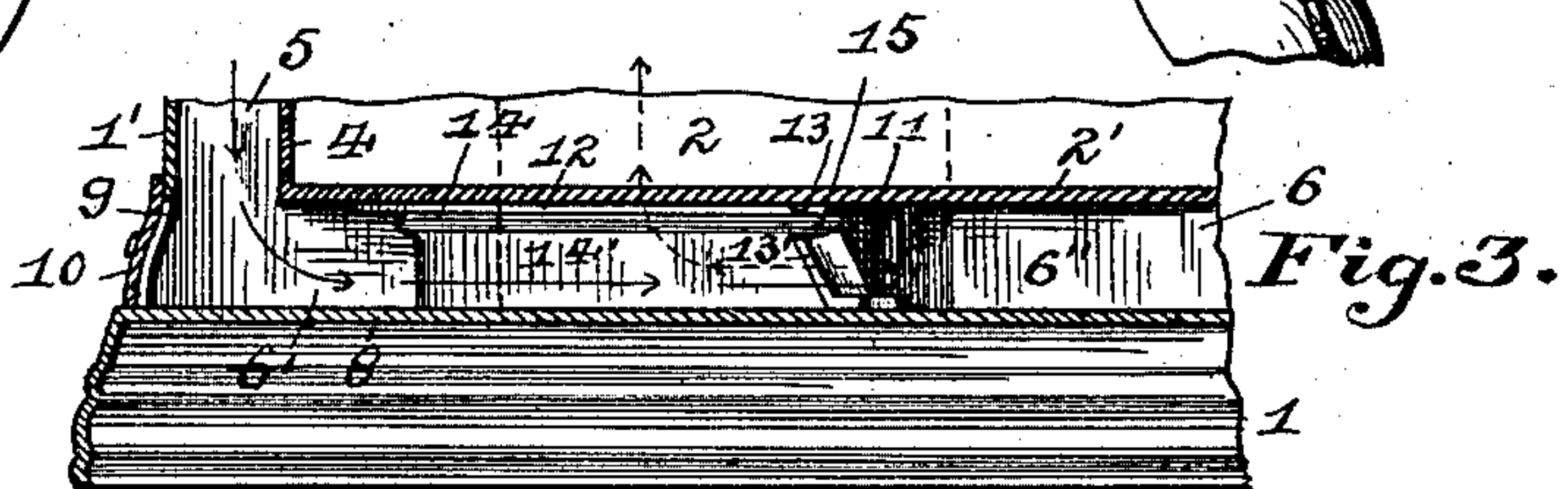
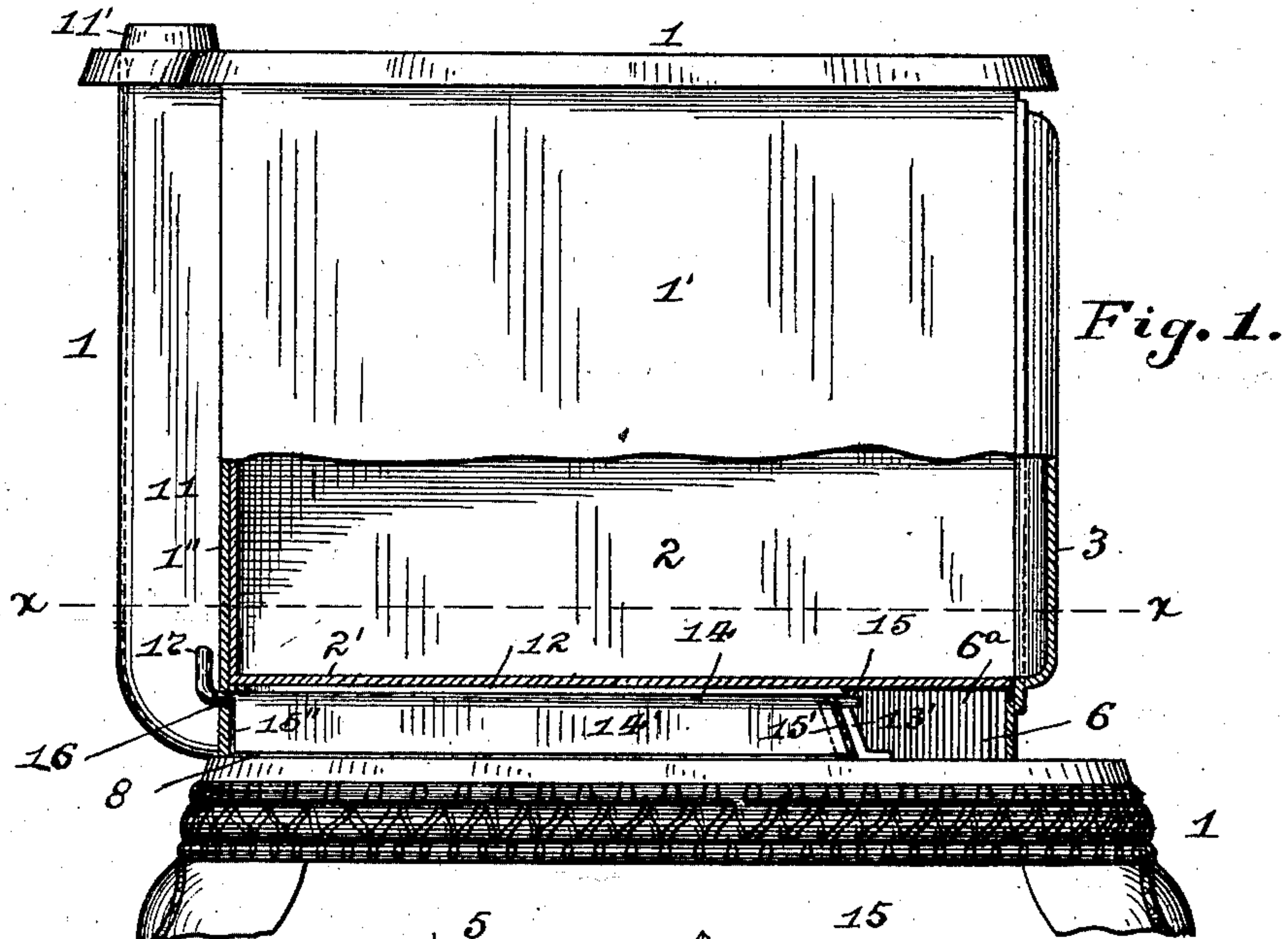


No. 702,274.

Patented June 10, 1902.

F. ANSHUTZ.  
STOVE, RANGE, &c.  
(Application filed May 13, 1901.)

(No Model.)



Witnesses:

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# UNITED STATES PATENT OFFICE.

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## STOVE, RANGE, &c.

SPECIFICATION forming part of Letters Patent No. 702,274, dated June 10, 1902.

Application filed May 13, 1901. Serial No. 59,961. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK ANSHUTZ, a resident of Allegheny, in the county of Allegheny and State of Pennsylvania, have invented  
5 a new and useful Improvement in Stoves, Ranges, &c.; and I do hereby declare the following to be a full, clear, and exact description thereof.

My invention relates to flue-strips for  
10 stoves, ranges, &c., and has special reference to what are known as "sheet" or "single" flue constructed stoves or ranges.

The object of my invention is to provide means whereby the flue can be quickly, easily, thoroughly, and completely cleaned when  
15 desired without the necessity of removing any of the parts therefrom.

My invention consists, generally stated, in the novel arrangement, construction, and combination of parts, as hereinafter more specifically set forth and described, and particularly pointed out in the claims.

To enable others skilled in the art to which my invention appertains to build and use my  
25 improved flue construction for stoves, ranges, &c., I will describe the same more fully, referring to the accompanying drawings, in which—

Figure 1 is a side view of a stove or range,  
30 showing some of the same in section with my invention applied thereto. Fig. 2 is a cross-section of the same on the line X X, Fig. 1, showing a portion of the oven-bottom broken away; and Fig. 3 is a detail section on the  
35 line 3 3, Fig. 2.

Like symbols of reference herein indicate like parts in each of the figures of the drawings.

As illustrated in the drawings, my improved  
40 flue construction is shown as applied to an ordinary stove or range 1, which can be of any approved form or design, having an oven 2 therein and provided with the usual door 3 thereon. The oven 2 is generally formed of  
45 sheet metal and is supported within the stove or range 1 in any suitable manner in order to permit of its withdrawal therefrom at any time desired, and when in place one side 4 of the oven 2 acts to form with the side wall 1'

of the stove or range 1 a downtake-flue 5 and  
50 which connects with the fire-box of the stove or range 1 by any suitable flue or flues. (Not shown.) The downtake-flue 5 leads to and connects with a bottom flue 6, formed by the  
bottom 2' of the oven 2 and the bottom 8 of  
55 the stove or range 1, and an opening 9 is formed in the side wall 1' opposite the flue 6, which is closed by a door 10, hinged to said wall 1'. The bottom flue 6 leads to and connects with an uptake-flue 11, which is formed  
60 in the back wall 1'' of the stove or range 1, and this flue 11 connects at its top 11' with the ordinary chimney-flue by means of a stovepipe in the ordinary manner.

Extending up from and secured to the bot-  
65 tom 8 of the stove or range 1 within the bottom flue 6 is the supporting-standard 12, which is provided with a slot 13 at its inner end 13' for supporting one end of a flue-strip 14, which is preferably positioned at an angle  
70 and divides the bottom flue 6 into two chambers 6' and 6'', which are connected by the passage 6<sup>a</sup>. The flue-strip 14 is formed of a plate 14' and has a bar 15 thereon at one end 15' for engaging with the slot 13 of the stand-  
75 ard 12, while its opposite end 15'' is provided with a bar 16, which is journaled and passes through the outer end 12' of the standard 12 and through the back wall 1'' of the stove or  
80 range 1 and has a handle 17 thereon for operating the same when desired.

The use and operation of my improved flue construction for stoves, ranges, &c., is as follows: The products of combustion from the  
85 fire-box in the stove or range 1 pass through a suitable flue or flues, over the oven 2, into and down the downtake-flue 5, along the side 4 of said oven 2, and into the bottom flue 6 under the bottom 7 of the oven 2, where such  
90 products of combustion strike against the flue-strip 14, which is then in its lowered position, as shown in Fig. 1. As the products of combustion strike against the plate 14' of the flue-strip 14 they are deflected by the  
95 same around the chamber 6' of the flue 6 on account of the angular position of the strip 14 and pass through the passage 6<sup>a</sup> of the bottom flue 7 beyond the strip 14 into the



chamber 6" of the flue 6, after which they pass through said chamber 6" into the uptake-flue 11 and up the said flue 11 into the stove-pipe or chimney-flue at the upper end 11', as desired.

When it is desired to clean out any dirt, dust, or carbon which might accumulate within the bottom flue 6, all that is necessary is to grasp the handle 17 on the bar 16 and press or throw the same downward, which will cause the plate 14' to rise to the position shown in Figs. 2 and 3 by reason of the bar 15 being journaled in the slot 13 of the standard 12, and the bar 16 being journaled in the end 15" of the standard 12 and in the back wall 1" of the stove or range 1. After this is accomplished and while the strip 14 is held in this position the operator presses or pushes inwardly on the handle 17 to allow the flue-strip 14 to move sufficiently so that the end 15' of the plate 14' is caught in the slot 13 on the end 13' of the standard 12 in order to support and lock the strip 14 in its raised position, when the cleaning-out door 10 can be opened and a cloth, mop, or broom inserted through the opening 9 into the bottom flue 6 to clean out the same. After the flue 6 has been cleaned out the operator can grasp the handle 17 and pull the same outwardly, which will cause the strip 14 to move in the same direction and free the end 15' of the plate 14' from the slot 13. Then by releasing the hold upon the handle 17 the flue-strip 14 will drop down and assume its normal position, as shown in Fig. 1, when the door 10 can then be closed and the stove or range 1 operated, as before described.

It will be evident that my improved flue construction for stoves, ranges, &c., can also be applied to other forms of cooking and heating appliances, wherein a flue or dividing strip can be placed in position to clean out the entire flue instead of each division thereof, as formerly, and when used in any case the movable division-wall forms a combined flue-strip and clean-out grate, which will enable the flue to be entirely and thoroughly cleaned when desired without necessitating the removal of the parts. The device is simple, easily and quickly operated, and when in position does not interfere with the operation of the parts in any manner whatever.

Various modifications in the construction, design, and position of the various parts may be resorted to without departing from the spirit of the invention or sacrificing any of its advantages.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. A stove, range, &c., provided with a bottom having a sheet or single flue therein, an oven, a supporting-standard on said bottom under said oven and within said flue, and a movable flue-strip adapted to be raised and supported by and within said standard for permitting said flue to be cleaned.

2. A stove, range, &c., provided with a bottom and having a sheet or single flue therein, a movable oven, a supporting-standard on said bottom under said oven and within said flue, and a movable flue-strip adapted to be raised and supported by and within said standard for permitting said flue to be cleaned.

3. A stove, range, &c., provided with a bottom and having a sheet or single flue therein, a movable oven, a supporting-standard on said bottom under said oven and within said flue having a slot at one end thereof, and a movable flue-strip adapted to be raised and supported within said slot for permitting said flue to be cleaned.

4. A stove, range, &c., provided with a bottom and having a sheet or single flue therein, an oven, a supporting-standard on said bottom under said oven and within said flue having a slot at one end thereof, and a movable flue-strip supported by said slot and adapted to be locked therein in its raised position for permitting said flue to be cleaned.

5. A stove, range, &c., provided with a bottom and having a sheet or single flue therein, an oven, a supporting-standard on said bottom under said oven and within said flue having a slot at one end thereof, a movable flue-strip supported within said slot, and a plate on said strip adapted to engage with said slot in its raised position to hold the same and permit said flue to be cleaned.

6. A stove, range, &c., provided with a bottom and having a sheet or single flue therein, an oven, a supporting-standard on said bottom under said oven and within said flue having a slot at one end thereof, a movable flue-strip positioned at an angle within said slot, a plate on said strip adapted to engage with said slot in its raised position to hold the same and permit said flue to be cleaned, and a handle on said flue-strip extending through said stove, range, &c., for operating said strip.

In testimony whereof I, the said FRANK ANSHUTZ, have hereunto set my hand.

FRANK ANSHUTZ.

Witnesses:

J. N. COOKE,  
LEW A. ANSHUTZ.