

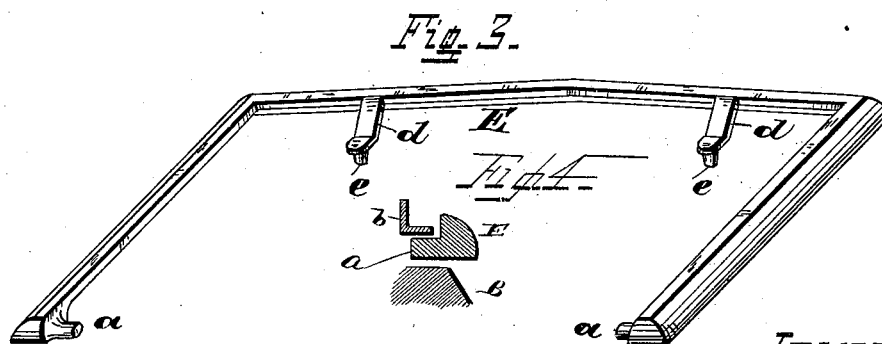
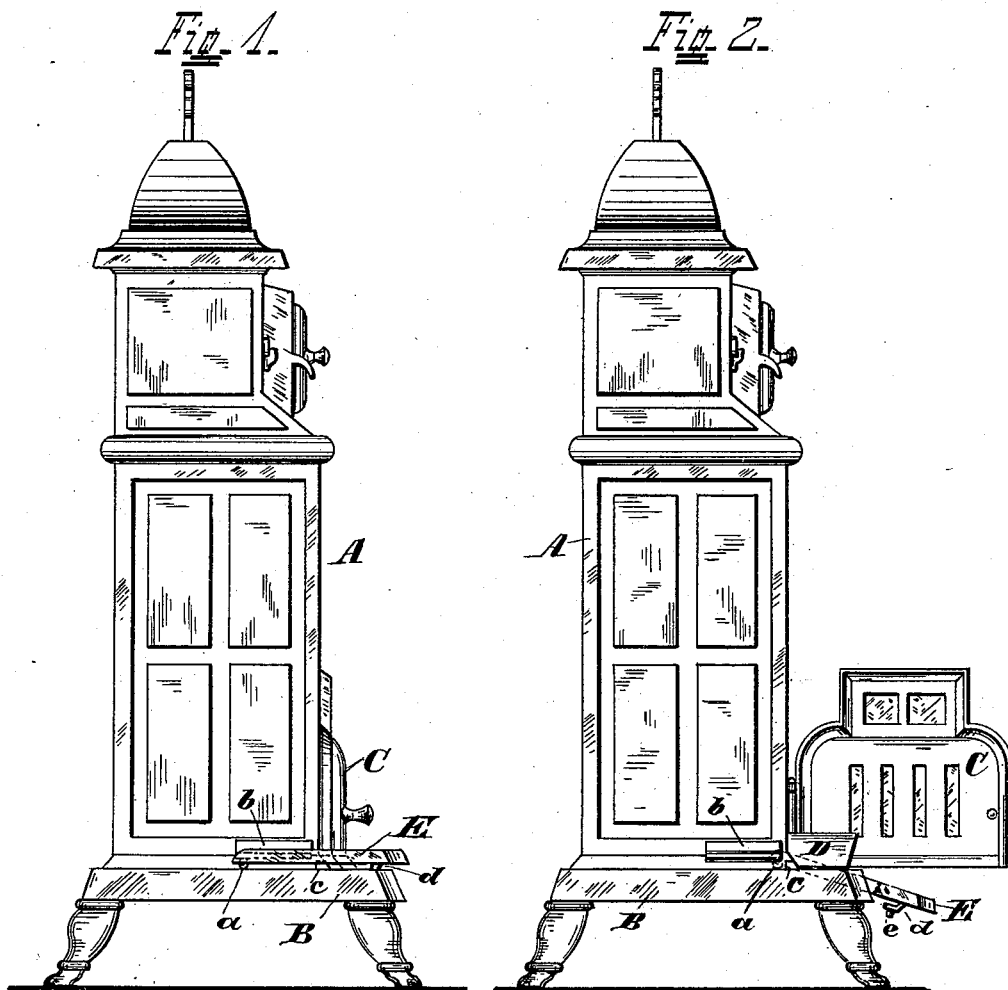
(No Model.)

J. McMASTER.

HEATING STOVE.

No. 342,968.

Patented June 1, 1886.



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# UNITED STATES PATENT OFFICE.

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## HEATING-STOVE.

SPECIFICATION forming part of Letters Patent No. 342,968, dated June 1, 1886.

Application filed February 24, 1885. Serial No. 156,777. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN McMASTER, a citizen of the United States, residing at Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Heating-Stoves, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part of this specification.

My invention relates to improvements in heating-stoves; and has for its object the production of a novel fender-rail, which normally occupies a position above the hearth-plate, and in such position interferes with the opening of the lower door or doors and the removal of the ash-pan, but which can be drawn forward and dropped below the level of the hearth without removal or disconnection from the stove, so as to permit the opening of the door or doors, and the removal of the ash-pan by sliding the same straightforward, and which can be readily and instantly replaced when desired.

The novelty of the invention will be here-with set forth, and distinctly pointed out in the claims.

In the accompanying drawings, Figure 1 is a side elevation of a stove containing my improved fender-rail and showing the same in its normal position. Fig. 2 is a corresponding view with the rail drawn out and dropped below the level of the hearth. Fig. 3 is an enlarged perspective view of the rail. Fig. 4 is a detail section through the part *d*.

The same letters of reference are used to indicate identical parts in all the figures.

A is any ordinary heating-stove, with a hearth, B, and door C opening into the ash-pit, which contains the ash-pan D.

E is my improved fender-rail, with side arms embracing the sides of the stove, and having at their extremities inturned lugs *a*, which are confined and work in a way or slot formed by an upper projecting ledge, *b*, on each side of the stove, and by the base-plate, as shown. In the fronts of these ways are projections or shoulders *c*, which prevent the rail from being drawn entirely out and disengaged from the stove.

Instead of making the ways or slots upon

the sides of the stove, with engaging-pins upon the rail, it is evident that this construction can be reversed, and that pins can be secured upon the sides of the stove and enter and engage with slots formed upon the inner sides of the rail for accomplishing the same result.

To support the rail in its normal position above the level of the hearth and hold it in place, I provide one or more—in this instance two—legs, *d*, extending downward from the front bar of the rail, and provided with pins or dowels *e*, which enter and engage with coincident perforations in the front of the hearth. When it is desired to open the door to see or remove the ash-pan, it is only necessary to slightly raise the front bar of the rail to disengage the pins *e*, whereupon the rail can be drawn forward until the lugs *a* strike the shoulders *c*, when the rail will drop down to the position shown in Fig. 2, and thus be below the level of the hearth. It can be as readily replaced when the door C is closed, and should it be desirable to remove the rail entirely from the stove for the purpose of cleaning or otherwise, it is only necessary to slightly raise the rail and push it back until the lugs *a* pass from under the ledges *b*, whereupon the rail can be lifted bodily from the stove. I have thus produced, as will be seen, a sliding hinged drop-rail, simple in construction, and which, when in its normal position above the level of the hearth, is practically locked to the stove, so that persons' feet can be placed upon it without disturbing or disengaging it.

Having thus fully described my invention, I claim—

1. The combination, with a stove and its hearth, of a fender-rail occupying a normal position above the outer edge of the hearth, and provided with two rearwardly-extending arms embracing the sides of the stove, and sliding-hinge connections between such arms and the stove, whereby the fender-rail is connected to the sides of the stove and can be drawn forward and dropped to a position below the level of the hearth without detaching it from the stove.

2. The combination, with a stove and its hearth, of a fender-rail occupying a normal position above the outer edge of the hearth,

and provided with two rearwardly-extending arms embracing the sides of the stove, and sliding-hinge connections between said arms and the stove, said connections arranged to  
 5 permit the rail to be entirely disengaged from the stove when it is pushed back of its normal position, and provided with suitable stops to prevent its disengagement from the stove when it is drawn forward of its normal position,  
 10 whereby, upon drawing the rail forward of its normal position, it can be dropped to a position below the level of the hearth without detaching it from the stove, and whereby, upon pushing it back of its normal position, it  
 15 becomes disconnected from the stove and can be bodily removed.

3. The combination, with a stove and its hearth, of a fender-rail occupying a normal position above the outer edge of the hearth,  
 20 and provided with two rearwardly-extending side arms embracing the sides of the stove, the two parts being provided, the one with a groove and the other with a lug engaging therewith, whereby the fender-rail is connect-  
 25 ed to the sides of the stove, and can be drawn forward and dropped to a position below the level of the hearth without detaching it from the stove.

4. The combination, with a stove and its  
 30 hearth, of a fender-rail occupying a normal position above the outer edge of the hearth, and provided with two rearwardly-extending side arms embracing the sides of the stove, the two parts being provided the one with a  
 35 groove and the other with a lug engaging therewith, said two parts arranged to be free to be disengaged when the fender-rail is pushed back of its normal position and provided with a suitable stop to prevent their disengagement  
 40 when the fender-rail is drawn forward of its normal position, whereby upon drawing the rail forward of its normal position it can be dropped to a position below the level of the hearth without detaching it from the stove,  
 45 and whereby, upon pushing it back of its nor-

mal position, it becomes disconnected from the stove, and can be bodily removed.

5. The combination, with a stove and its hearth, of a fender-rail occupying a normal position above the outer edge of the hearth,  
 50 and provided with two rearwardly-extending side arms embracing the sides of the stove, each of said arms provided at its rear end with an intumed lug which engages with and slides in a longitudinal slot or guideway upon  
 55 the side of the stove, whereby the fender-rail is connected to the sides of the stove and can be drawn forward and dropped to a position below the level of the hearth without detach-  
 ing it from the stove. 60

6. The combination, with a stove and its hearth, of a fender-rail occupying a normal position above the outer edge of the hearth, and provided with two rearwardly-extending  
 65 side arms embracing the sides of the stove, each of said arms provided at its rear end with an intumed lug which engages with and slides in a longitudinal slot or guideway upon the  
 side of the stove, said slots or guideways be-  
 70 ing open at their rear ends to permit the fender-rail to be pushed back of its normal position and entirely disengaged from the stove, and provided with suitable stops or end walls at  
 their forward ends, to prevent its disengage-  
 75 ment when it is drawn forward of its normal position, substantially as described.

7. The combination, with a stove and its hearth having recesses, of a fender-rail occupying a normal position above the outer edge  
 80 of the hearth, provided with two rearwardly-extending side arms embracing the sides of the stove, and engaging therewith by means of sliding hinge-connections, and having at its front depending legs resting in the recesses in the hearth, substantially as described.

JOHN McMASTER.

Witnesses:

E. W. RECTOR,  
 OTTO RICHTER.