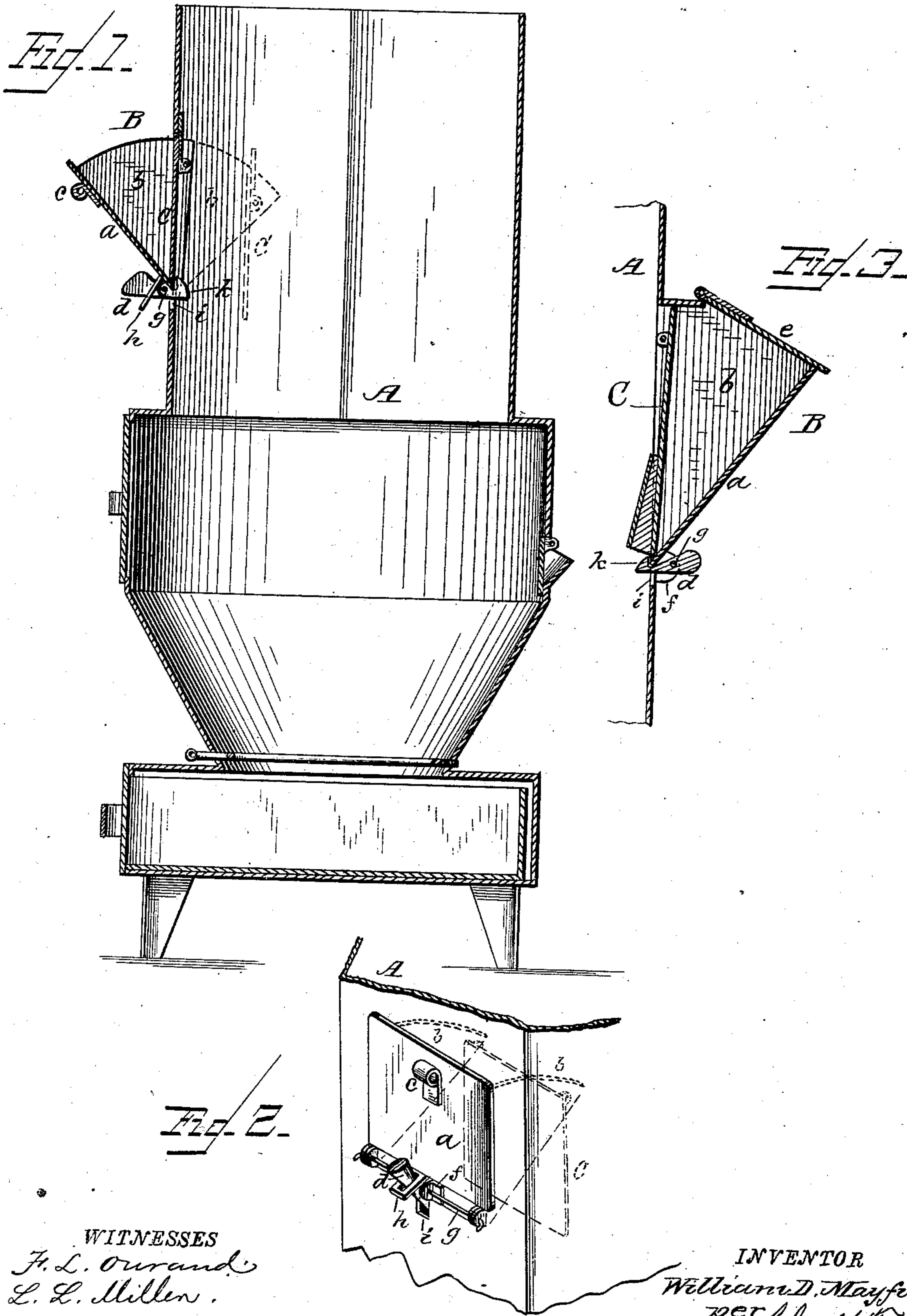


(No Model.)

W. D. MAYFIELD.  
FEEDING CHUTE FOR STOVES.

No. 312,739.

Patented Feb. 24, 1885.



WITNESSES  
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# UNITED STATES PATENT OFFICE.

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PLACE.

## FEEDING-CHUTE FOR STOVES.

SPECIFICATION forming part of Letters Patent No. 312,739, dated February 24, 1885.

Application filed April 7, 1884. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM D. MAYFIELD, a citizen of the United States, residing at Fort Worth, in the county of Tarrant and State of Texas, have invented certain new and useful Improvements in Feeding-Chutes for Stoves; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a sectional elevation of a stove embodying my invention, showing the chute or receptacle in full lines ready to receive a supply of fuel, and in broken or dotted lines after discharging the fuel in the stove; Fig. 2, a detail view in perspective thereof, and Fig. 3 a detail view in section of a modification of my invention.

The present invention has relation to certain new and useful improvements in that class of feeding-chutes employed for supplying fuel to stoves, furnaces, and other like heat-generators.

Previous to my invention it was common to provide a stationary chute with a swinging door to automatically close it after the discharge, to prevent the smoke and gas from escaping into the room; but no latch or other like device was employed by which this swinging door could be securely retained closed. It is also common to pivot the chute, so that when it is supplied with fuel it can be tipped forward to discharge the contents into the stove, but the swinging door was absent.

The object of the invention, therefore, is to provide the chute with a pivoted latch or other like device that will securely hold the door closed, the device operating automatically in locking the door closed.

A further object of the invention is to provide a pivoted chute with a swinging door, so that the two will act conjointly with each other, which objects I attain by the construction substantially as shown in the drawings, and hereinafter described and claimed.

In the accompanying drawings, A represents a stove of any of the usual forms and construction in order to illustrate the application of my invention. At any desirable height in

the stove is formed a suitable opening, and at the lower edge thereof is preferably pivoted a chute or receptacle, B, to receive a supply of coal or other fuel, said chute or receptacle consisting of an inclined bottom, *a*, and sides *b*, and, if desired, may be provided with a suitable handle, *c*. The chute or receptacle at its inner or open side is provided with a swinging door, C, which closes the opening in the stove when the chute or receptacle is being supplied with fuel, and is retained closed by a suitable latch, *d*, or other convenient device.

In Figs. 1 and 2 I have shown the latch *d* as pivoted to lugs *f* by the rod *g*, which also forms a pivotal connection to the chute. The outer end of the latch *d* extends through a yoke, *h*, projecting from the inclined bottom *a*, said latch also extending through a slot or opening, *i*, into the stove.

In Fig. 1 the chute B in full lines is shown in position for receiving the fuel, and when filled it is tipped forward into the stove, and in doing so the yoke *h* will act on the latch *d* and release the door C, when the fuel will be discharged into the stove, the chute and swinging door then being in position shown in Fig. 2, the bottom *a* of the chute assuming a perpendicular position to close the opening in the stove.

In Fig. 3 I have shown a modification of my invention, the chute being stationary instead of pivoted, and preferably provided with a cover, *e*, and a weighted swinging door whereby it will automatically close after the fuel has been discharged. The latch *d* in both instances is weighted, or pivoted away from its center, so that it will act automatically; or, in other words, so constructed as to assume a horizontal position when not acted upon by the swinging door, the end of the latch being beveled, as shown at *k*, so that when the lower edge of the door strikes it it will be depressed and the door securely held closed.

It is not essential that the door should be released automatically, and therefore the latch can be constructed in such a manner that the fuel can be retained in the chute until required, when the latch and door may be released by hand.

Having now fully described my invention,

what I claim as new, and desire to secure by Letters Patent, is—

1. A feeding-chute for stoves, provided with a swinging door and a pivoted latching device  
5 constructed to act automatically in locking the door in a closed position, substantially as and for the purpose set forth.

2. A pivoted feeding-chute for stoves, provided with a swinging door to close the opening in the stove after the fuel has been discharged, substantially as and for the purpose  
10 specified.

3. A pivoted feeding-chute for stoves, provided with a swinging door and an automatic or self-acting latching device to lock the door  
15 in a closed position, substantially as and for the purpose described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

WILLIAM DUDLEY MAYFIELD.

Witnesses:

IKE T. MAYFIELD,

W. D. M. MASON.