(No Model.)

T. CONNOR.

SIFTING ATTACHMENT FOR ASH CHUTES.

No. 587,932. Patented Aug. 10, 1897.

Fig. 1.

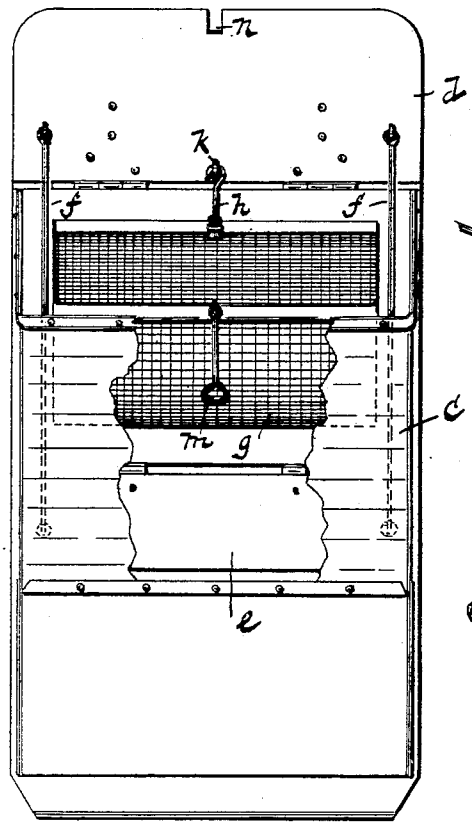


Fig. 2.

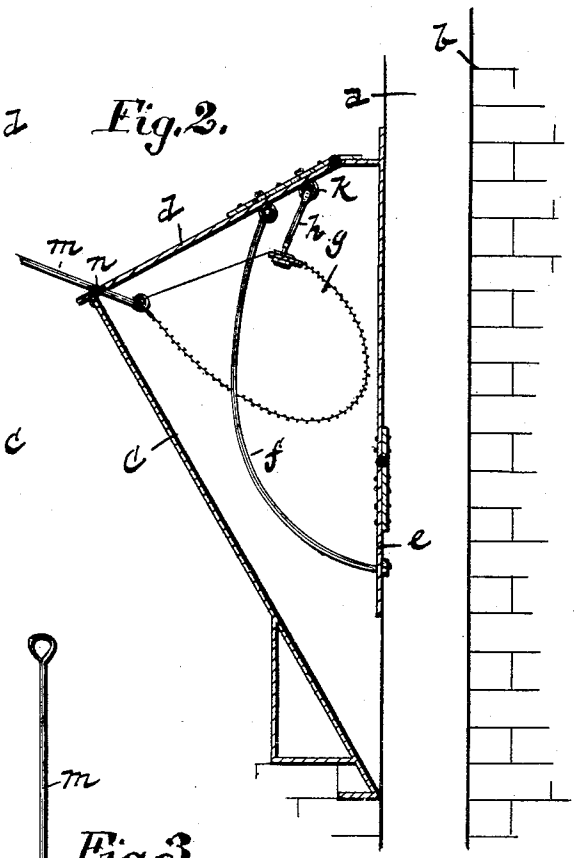
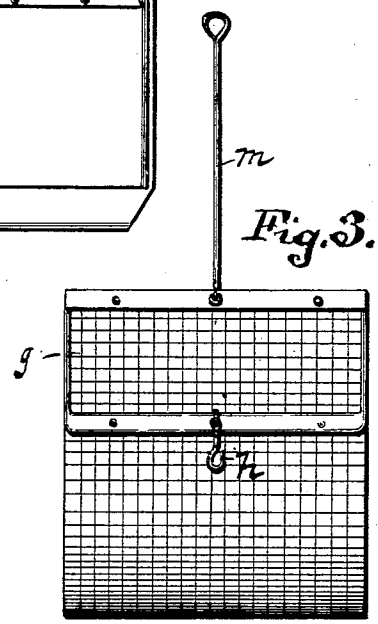


Fig. 3.



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SIFTING ATTACHMENT FOR ASH-CHUTES.

SPECIFICATION forming part of Letters Patent No. 587,932, dated August 10, 1897.

Application filed April 10, 1894. Renewed January 16, 1897. Serial No. 619,497. (No model.)

To all whom it may concern:

Be it known that I, THOMAS CONNOR, a citizen of the United States, residing at Holyoke, in the county of Hampden and State of Massachusetts, have invented a new and useful Sifting Attachment for Ash-Chutes, of which the following is a specification, reference being had to the accompanying drawings, forming part thereof.

My invention relates to means to be used in connection with ash-chutes for sifting the ashes emptied into the latter, and has especial reference to a sifting attachment for the form of ash-chute shown, described, and claimed in Letters Patent No. 491,960, issued to me on the 14th day of February, 1893. The ash-chute covered by said Letters Patent is provided with a conductor which projects from the wall in which the chute is located, and said conductor has a swinging cover which is so connected to a swinging damper-plate at its rear side that when the cover is in its open position the damper-plate is in its closed position, and vice versa, thereby shutting off the upward draft of air when the chute is opened.

The object of my present invention is to provide a form of ash-sifter to be used in connection with such ash-chute to enable the ashes to be conveniently sifted without being blown or scattered about the room into which the chute opens.

To this end my invention consists in the ash-sifting attachment constructed and operating as hereinafter fully described, and particularly pointed out in the claim.

Referring to the drawings, in which like letters designate like parts in the several views, Figure 1 is a front view, partly broken away, of the chute-conductor and the sifting attachment applied thereto, the cover of the chute being shown in its open position. Fig. 2 is a vertical section thereof, showing the cover in its closed position. Fig. 3 is a front view of the sifter removed from the chute.

The letter *a* designates the ash-chute, located in the wall *b*, and *c* designates the conductor forming the entrance to said chute from a room on either of the floors of the building. At its front side said conductor is provided with the swinging cover *d* and at its rear side with the swinging damper-plate *e*, which are so connected by the rods *f* that when the cover is open the damper-plate is shut, and vice versa, as will fully appear by reference to my before-mentioned Letters Patent.

The letter *g* designates the sifting attachment devised by me, which consists of a receptacle adapted to receive the ashes and provided with a woven wire or other screening bottom, which receptacle is adapted to be inserted within the conductor *c* when the cover of the latter is open, and is provided at its rear side with a loose hook *h*, adapted to enter an eye *k* on the cover *d* of the chute-conductor, and at its front side with a loosely-connected rod *m*, adapted to rest on the front edge of the conductor, as shown in Fig. 2, the cover *d* having in its front edge a notch *n* to enable the same to be closed while said rod occupies such position. In its preferred form the receptacle *g* will be made of substantially U-shape, with its sides and bottom composed of a continuous screening-surface and with closed ends, as shown, thereby securing a very large area of screening-surface, while leaving the receptacle of a shape which adapts it to be readily placed within and removed from the conductor. Furthermore, such form enables the receptacle to be readily carried by its rod or handle *m*, as shown in Fig. 3, from the stove to the chute after the ashes are placed therein and enables me to use a larger sifter than could otherwise be used in the chute. The sifter being filled with ashes and hung by its hook *h* from the eye *k* on the cover *d* of the chute, said cover is swung to its closed position, thereby swinging the damper-plate *e* to its open position and the projecting end of the rod or handle *m* is grasped, whereupon by moving said rod toward and away from the user longitudinally a swinging movement is imparted to the receptacle, which quickly and thoroughly sifts the ashes therefrom, the closed cover *d* preventing any escape of the ash-dust into the room. The cover *d* is then swung to its open position, thereby moving the damper-plate to its closed position and preventing any upward draft of air, and the sifter is removed and the cinders and unconsumed coal emptied therefrom.

In lieu of the loose hook *h* any suitable

means for loosely suspending the sifter within the conductor of the chute can be employed, but I prefer to use such means because of its simplicity and cheapness.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

The combination with the ash-chute conductor *c* having the swinging cover *d* provided with the notch *n* and eye *k*, of the sifting-receptacle *g* provided with the hook *h* and rod or handle *m*, substantially as set forth.

THOMAS CONNOR.

Witnesses:
W. H. CHAPMAN,
J. E. CHAPMAN.