

N. J. FELIX.

ASH-SIFTER.

No. 178,618.

Patented June 13, 1373.

Fig: 1.

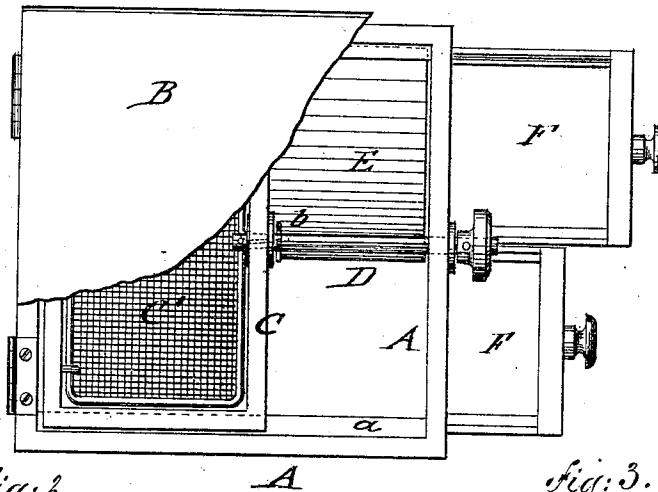


Fig: 2.

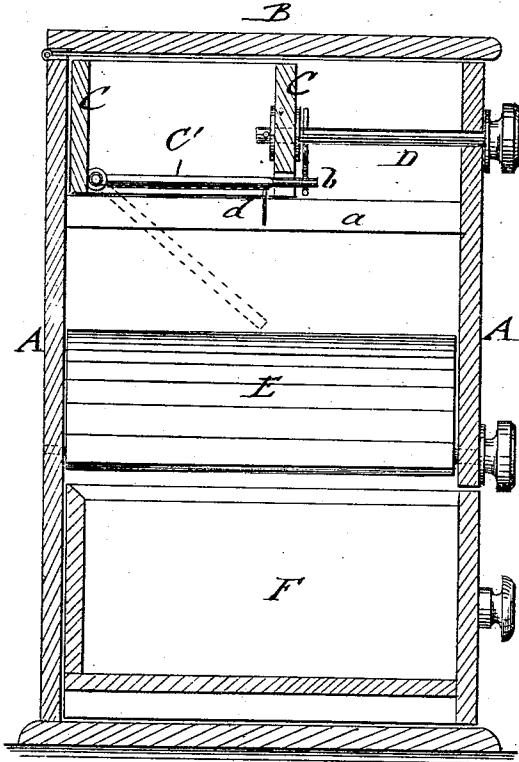
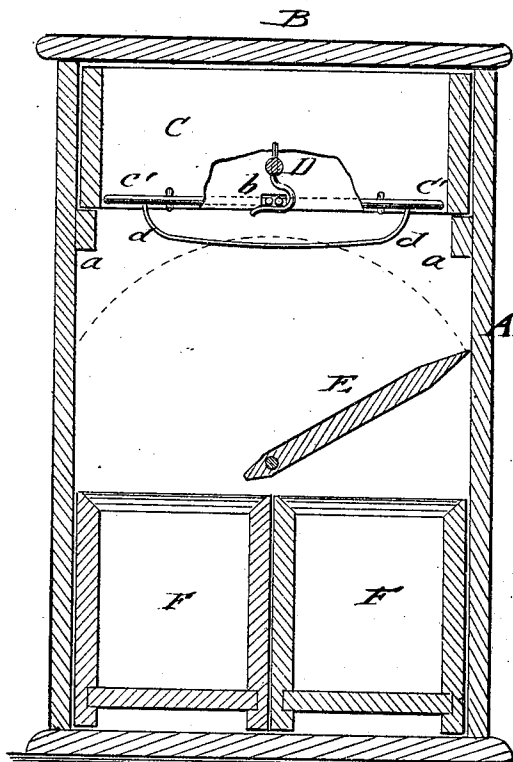


Fig: 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

NUMA J. FELIX, OF NEW YORK, N. Y.

IMPROVEMENT IN ASH-SIFTERS.

Specification forming part of Letters Patent No. 178,618, dated June 13, 1876; application filed April 18, 1876.

To all whom it may concern:

Be it known that I, NUMA J. FELIX, of New York city, in the county and State of New York, have invented a new and Improved Ash-Sifter, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a top view, with lid partly broken off; and Figs. 2 and 3 are, respectively, vertical longitudinal and transverse sections of my improved ash-sifter.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish, for household and other purposes, an improved ash-sifter that separates the unburned coal particles from the ashes in a quick and reliable manner without the least annoyance by dust; and the invention consists of a hinged and locked screen arranged in the upper part of a sliding box, from which the ashes are conveyed along a hinged gate into a bottom drawer, while the coal is dropped by swinging the gate over to the other side into an adjoining drawer on the release of the screen, which is locked again to the box by the swinging back of the gate.

In the drawing, A represents the outer box or case of my improved ash-sifter, which is closed by a tightly-fitting lid, B, hinged to the same. A sliding box, C, with a hinged and locked screen, C', is reciprocated by a sliding rod, D, on side guide-rails *a* of box A, rod D passing to the outside of the box, and having a knob or button, by which the screen is readily shaken for the sifting of the ashes. The hinged screen C' is locked by a pin and catch-hook, *b*, of the sliding rod D, or spring-catch and cam, or other suitable device to the box C, to be released for dropping the screen by turning the rod D. A guard-wire, *d*, at the under side of screen C', serves to raise the screen by contact with a centrally-hinged

gate, E, that may be swung by a front button attached to its pivot-pin or shaft from one side to the other, the gate to form contact with the side walls of the box, and be supported in inclined position by the same. Two sliding drawers, F, are arranged below the gate E, at the bottom of box A, for the purpose of taking up the ashes and coal. The coal-ashes are placed in the reciprocating screen-box and shaken for sifting, the ashes dropping and passing along the gate into the box not covered by the same. When the sifting operation is completed the gate is swung over to cover the ash-box, and leave the other box open for the dropping of the coal, which is accomplished by releasing the hinged screen. By swinging the gate back the screen is carried up again and locked to the sliding box, which is then ready to be charged again. When the coal-ashes are sifted the drawers, with the unburned coal pieces and the ashes, may be removed.

As the box is closed in all its parts, no dust can escape during sifting, so that the sifter may be used at any place without annoyance, the setting of the gate and screen being accomplished from the outside without opening the lid. The sifter is of compact shape, quickly operated, and may, on account of the simplicity of its construction, be cheaply manufactured.

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

The combination, with close outer box A B, having two lower drawers, of the box C, having hinged slide-screen C', guard-wire *d*, and the hinged gate E, arranged substantially as and for the purpose specified.

NUMA J. FELIX.

Witnesses:

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