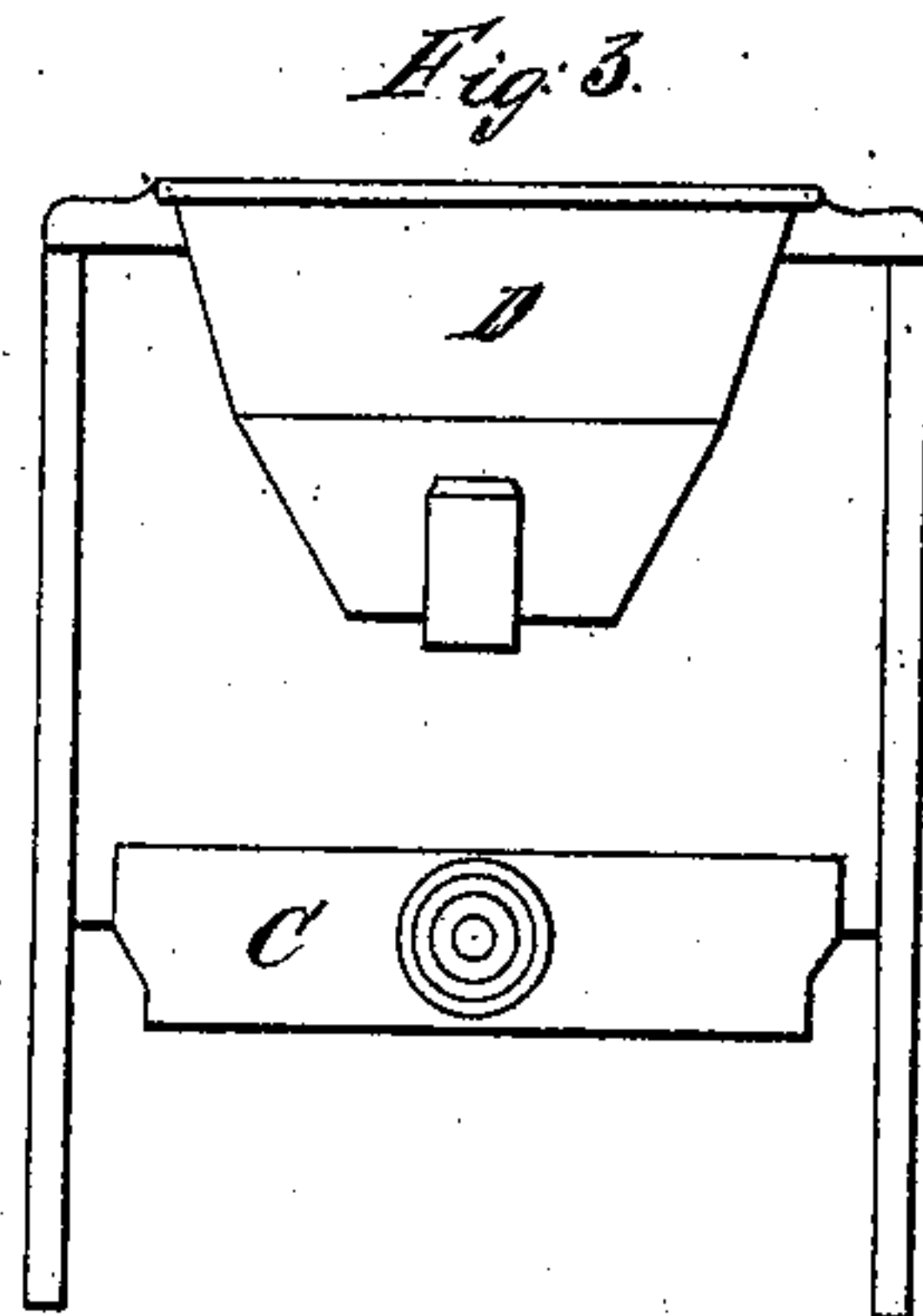
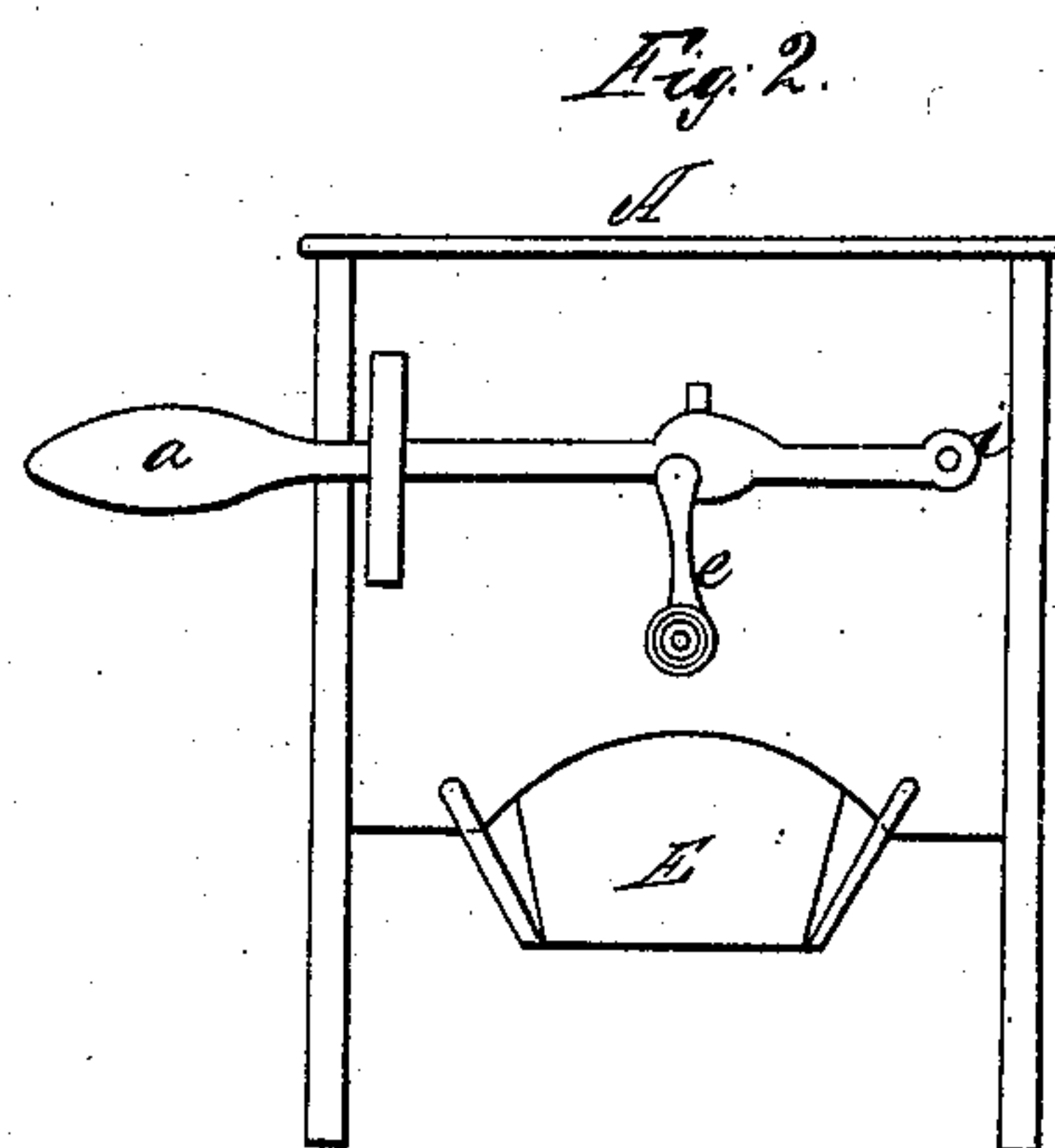
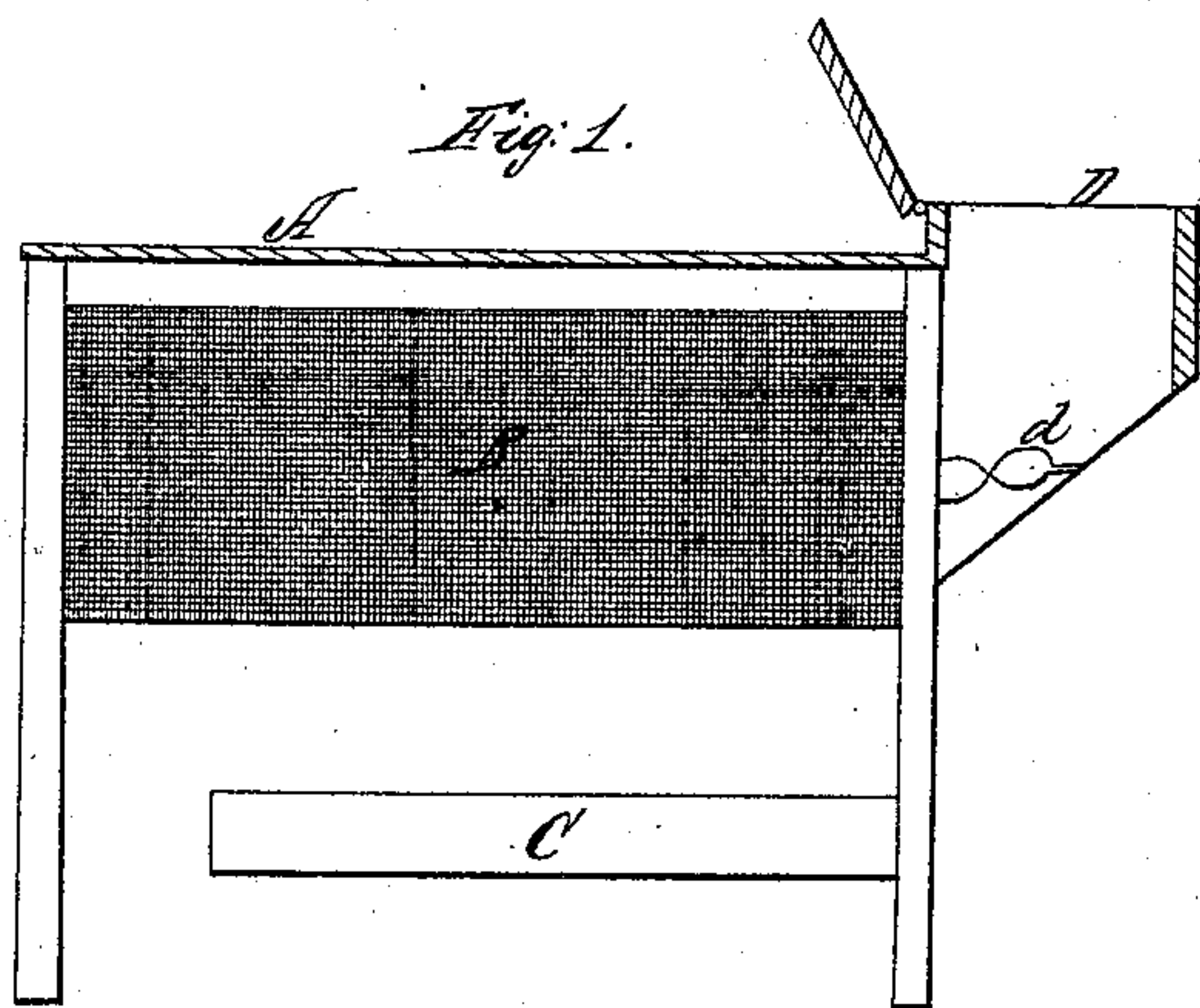


G. W. Pittock,

Coal Screen.

N^o 30,983.

Patented Dec. 18, 1860.



Witnesses:

*J. H. Alexander
J. M. Hyatt*

Inventor:

G. W. Pittock

UNITED STATES PATENT OFFICE.

GEO. W. PITTOCK, OF UNION MILLS, NEW YORK, ASSIGNOR TO HIMSELF, AND MERCHANT
PERRIGE, OF SARATOGA, NEW YORK.

COAL-SIFTER.

Specification of Letters Patent No. 30,983, dated December 18, 1860.

To all whom it may concern:

Be it known that I, G. W. PITTOCK, of Union Mills, in county of Fulton and State of New York, have invented certain new and
5 useful Improvements in Cinder-Mills; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings and the letters of reference marked
10 thereon.

The nature of my invention consists in the employment of the screw shaft and lever for operating the revolving sieve also the same in combination with other devices herein-
15 after set forth.

To enable others skilled in the art to make and use my invention I will now describe its construction and operation.

In the accompanying drawings, Figure 1
20 is a longitudinal section. Figs. 2 and 3 are end views.

Similar letters of reference indicate corresponding parts.

(A) represents the box, provided with
25 hopper (D).

(B) represents a sieve, composed of gauze wire or any other suitable material.

(d) is a shaft to which the sieve (B) is attached. It will be particularly observed
30 that one end of shaft (d) has its bearing in the bottom of hopper (D), which end is provided with a twist or screw, as fully shown in Fig. 1. The object of this screw is to prevent the cinders from choking the hop-
35 per, and to conduct them with regularity into the sieve.

(a) represents a lever pivoted at the point
(i). Through this lever one end of the shaft (d) passes, to which is attached the crank (e). 40

(g) is a slot cut perpendicularly above the shaft (d). It should be remarked however that the bottom of this slot is considerably below the level of the bearing of the opposite end of the shaft (d). Thus it will be
45 seen that when the sieve is revolved the lever (a) should be held up, and as soon as the ashes are separated from the cinders the lever should be dropped, when the cinders will be emptied out through the discharge
50 spout (E) into a vessel prepared to receive them.

(C) represents a draw for the reception of the ashes. The hopper (D) is provided with a hinged door for the purpose of pre-
55 venting the escape of the dust.

With a machine thus constructed the cinders may be thoroughly sifted in your room without the slightest inconvenience.

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

The combination of screw shaft (d) revolving sieve (B), lever (a) and hopper (D), when the whole shall be constructed
65 and arranged substantially as and for the purpose described.

GEORGE W. PITTOCK.

In presence of—

WM. KENNEDY,
ALBERT PITTOCK.