

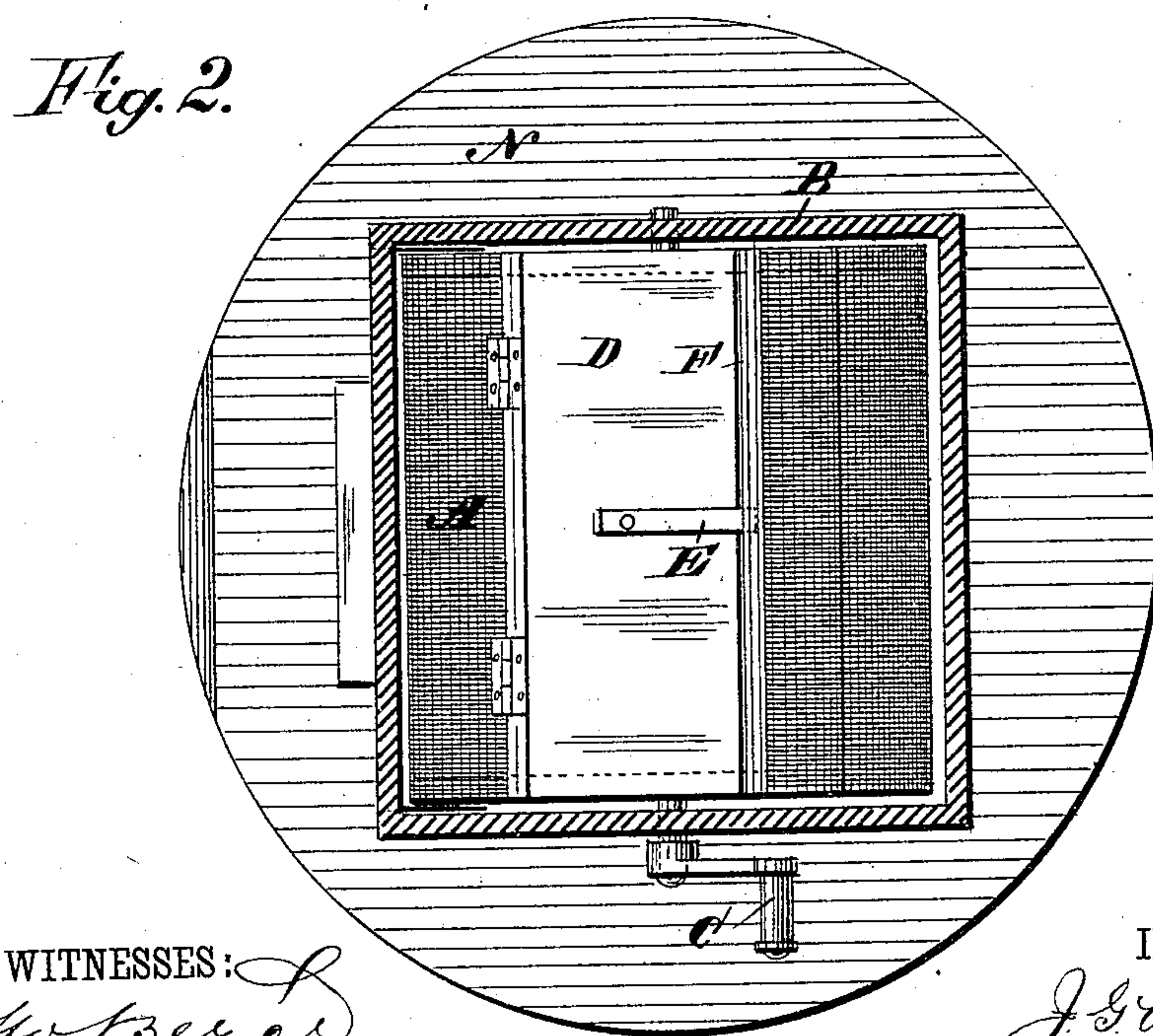
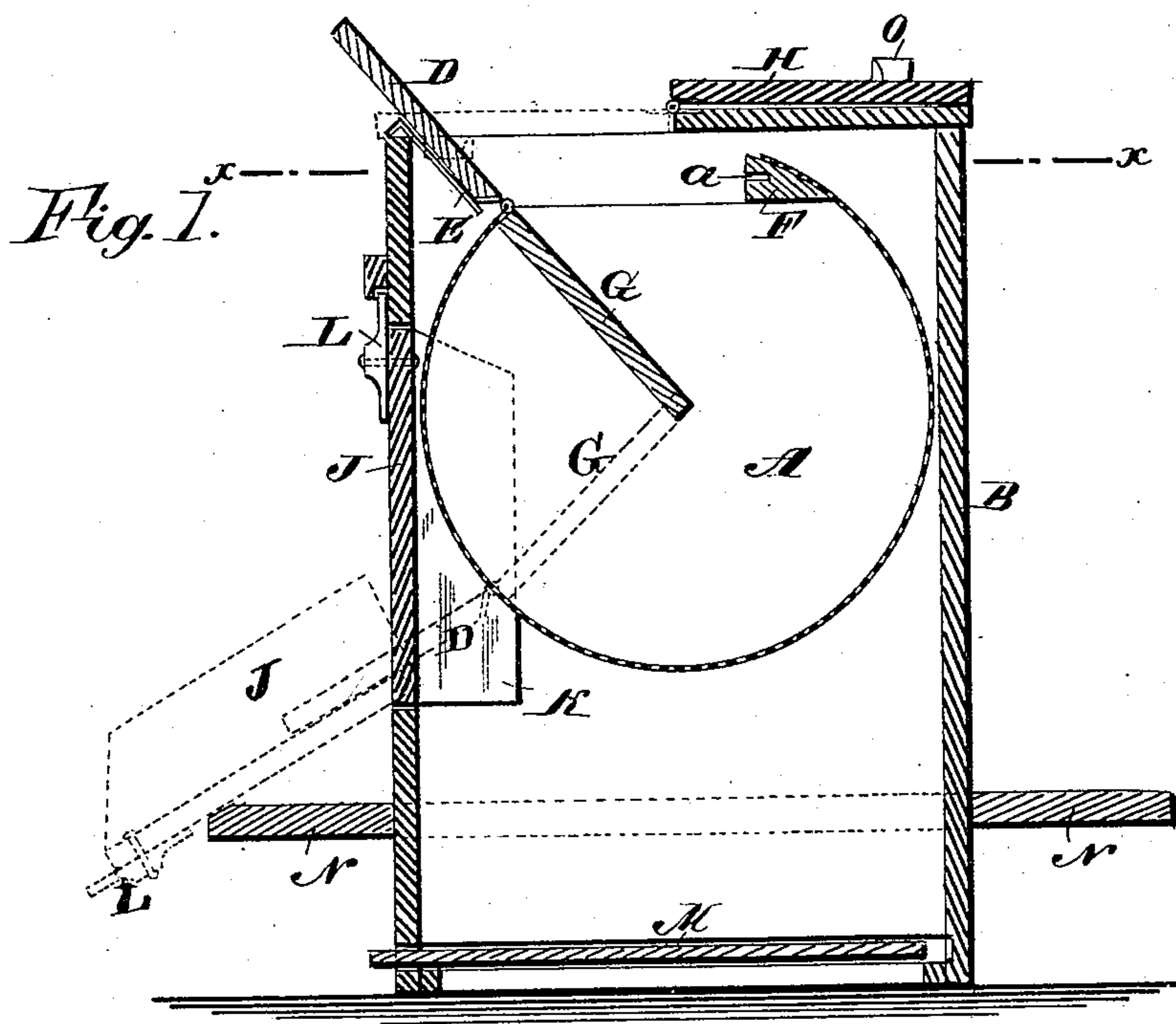
(No Model.)

J. G. W. PUTNAM.

COAL SIEVE.

No. 287,161.

Patented Oct. 23, 1883.



WITNESSES :

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UNITED STATES PATENT OFFICE.

JOHN G. W. PUTNAM, OF SARATOGA SPRINGS, NEW YORK.

COAL-SIEVE.

SPECIFICATION forming part of Letters Patent No. 287,161, dated October 23, 1883.

Application filed March 30, 1883. (No model.)

To all whom it may concern:

Be it known that I, J. GEORGE W. PUTNAM, of Saratoga Springs, Saratoga county, and State of New York, have invented a new and
5 Improved Coal-Sieve, of which the following is a full, clear, and exact description.

The object of my invention is to provide a new and improved coal and ash sieve, which is so constructed that the coal and ashes can
10 be sifted with very little labor and the spreading of the dust is avoided.

This invention pertains to an improvement in coal-sieves; and it consists of the combination and construction of parts, substantially as
15 hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in both figures.

20 Figure 1 is a cross-sectional elevation of my improved coal-sieve, showing the same in position for filling it. Fig. 2 is a sectional plan view of the same on the line *x x*, Fig. 1.

A drum, A, made of wire-netting or perforated metal plates or analogous material, is journaled in a box, B, and is provided with a crank-handle, C, outside of the box. The drum is provided with a hinged door or gate, D, parallel with the axis of the drum,
25 which gate is provided on its upper surface with a pivoted latch, E, having one end bent upward. The other end is adapted to be passed into a groove, *a*, in the edge of a strip, F, against which the swinging end of the gate D rests when it is closed, whereby the said gate
30 can be locked. The drum is provided with a longitudinal or radial partition, G, extending from the axis of the drum to the hinged edge of the gate. The box B is provided with a
40 hinged cover, H. The front of the box is provided with a downwardly-swinging gate, J, provided at each side with an inwardly-projecting flange, K, to form a chute, and at its swinging end with a pivoted button, L, for
45 locking the gate. The bottom of the box B is provided with a sliding plate, M. A circular board, N, is secured to the box a short distance above the lower end of the same.

The operation is as follows: The cover H is
50 raised and the gate D is swung upward and

outward, and is held in position by the latch E, the bent end of which catches on the upper edge of the front of the box B. The coals and ashes are then dumped into the drum and the gate D is closed and locked by means of the
55 latch E, and the cover H is swung down. The drum A is then rotated, and the ashes drop through the meshes of the same on the plate M, the cinders and coals remaining in the drum. Then the gate J is swung down and the drum
60 is turned until the partition G is in the position shown in dotted lines in Fig. 1, and then the gate D is swung down. The coals and cinders slide down the gates D and J and drop into a basket or other receptacle placed below
65 the lower edge of the gate J. As the box B is entirely closed while sifting the coal and cinders, the dust will be retained in the same and cannot spread. The box B, after the removal of the plate M, is placed in an ash-barrel, &c., which is covered by the board N, which
70 prevents the dust from spreading when the ashes are permitted to drop into the barrel. On the under side of the lid H a strip, O, is secured, which can be used as a handle in carrying the coal-sieve.

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

1. In a coal-sieve, the combination, with the rotatable sieve, of the radial board arranged
80 in said sieve, and the gate hinged to the upper end of the radial board, and adapted to rest upon the upper edge of the sieve-inclosing receptacle, to be secured to screen-strip F and to unfold and form an extension of the radial
85 board, both when the sieve is filled and when emptied, substantially as and for the purpose set forth.

2. In a coal-sieve, the combination, with the box B, of the cylindrical sieve A, journaled on
90 the same, the hinged gate D, the strip F, provided with a groove, *a*, in its edge, and the latch E, pivoted on the gate D, and having one end bent upward, substantially as herein shown and described, and for the purpose set
95 forth.

JOHN GEORGE WASHINGTON PUTNAM.

Witnesses:

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