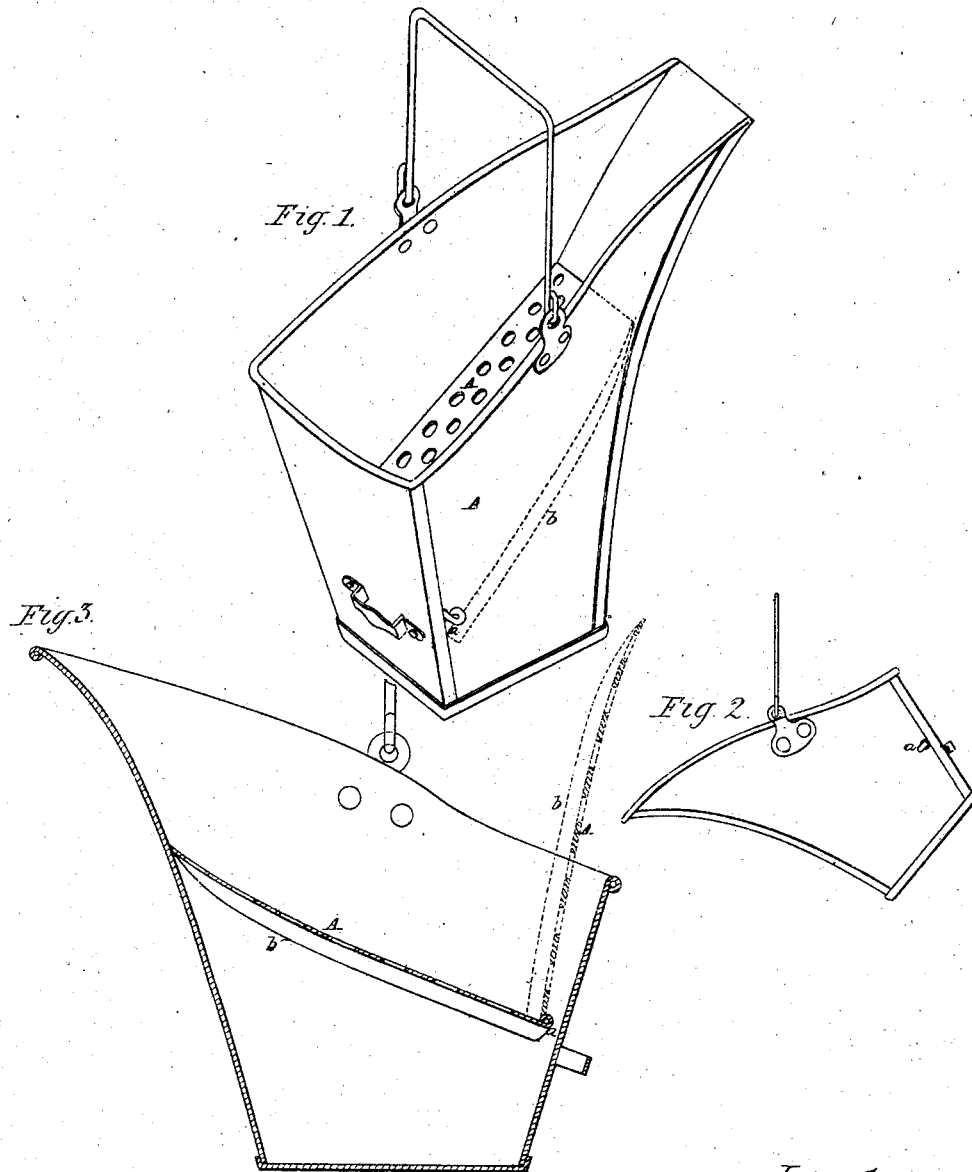


S. B. Sexton.

Coal Scuttle.

Nº 46,148.

Patented Jan. 31, 1865.



Witnesses.
R. T. Campbell
E. Schaefer.

Inventor.
S. B. Sexton
by L. A. Allen
Mason, Plumber & Hammer.

UNITED STATES PATENT OFFICE.

S. B. SEXTON, OF BALTIMORE, MARYLAND.

IMPROVED COAL-SCUTTLE.

Specification forming part of Letters Patent No. **46,148**, dated January 31, 1865.

To all whom it may concern:

Be it known that I, S. B. SEXTON, of Baltimore, county of Baltimore, and State of Maryland, have invented a new and useful Improvement in Coal-Scuttles; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making a part of this specification, in which—

Figure 1 is a perspective view of a coal-scuttle having my invention applied to it. Fig. 2 is a view showing the scuttle in a position for discharging coal. Fig. 3 is a vertical longitudinal section through the improved scuttle.

Similar letters of reference indicate corresponding parts in the three figures.

The object of my invention is to provide a coal-scuttle with a hinged plate, which is adapted to serve as a guard for preventing the coal from falling from the sides of the scuttle during the act of replenishing a fire; also, to so arrange and construct said hinged plate that it will serve as a sieve for separating fine coal or ashes from the coarser lumps, as will be hereinafter described.

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

The coal-scuttle which I have represented in the drawings may be constructed in any of the well-known forms; but I prefer to extend the mouth of the scuttle so as to form a long and gradually-discharging channel, which can be conveniently introduced into the mouth or door-opening of a stove. In horizontal section the scuttle may be quadrangular or elliptical.

A represents a perforated plate or wire screen, which is hinged or pivoted in any suitable manner at its rear end to the sides of the scuttle, and as near the back plate as possible. The front end of this plate is allowed to vibrate about its hinge-joint.

In the accompanying drawings, *a* represents the transverse pintle, which passes loosely through the eyes formed on the back edge of the plate A and hinges it to the scuttle. This perforated plate is shaped so as to fit closely, but not tightly, to the sides and front and back ends of the scuttle, and, being thus arranged, it constitutes a false or secondary

bottom, and forms a chamber beneath it for receiving fine coal dust or ashes, which pass through it.

I prefer to extend the plate A forward a sufficient distance to give it an inclination backward, so that the coal will readily slide forward when the scuttle is tilted up to the opening of a stove, and allow the fine dust to fall through this plate A into the lower compartment. To empty the fine coal dust or ashes from the scuttle, it is only necessary to lift the forward end of the plate A and tilt the scuttle.

By arranging the plate A as indicated in red lines, Fig. 3, and nearly filling the scuttle with coal, said plate will fall upon the coal in the act of tilting the scuttle forward, and serve as a guard or shield to prevent the coal from falling forward too rapidly and escaping over the sides of the scuttle. The plate A will lie loosely upon the coal in the scuttle, and prevent the channel or mouth thereof from choking. When the scuttle is emptied of coal, the plate A will fall down into its place, (represented in black lines, Fig. 3,) and serve to screen the cinders and partially-burned coal from the ashes.

On both longitudinal sides of the plate A, I form flanges *b b* by turning down the edges of this plate, the object being to further prevent the coal from escaping over the sides of the scuttle in the act of tilting it up to the opening in a stove.

It will be seen from the above description that the perforated plate A serves the double purpose of a screen for separating fine coal-dust from coal and admitting of the ready removal of the dust from the top of the scuttle, or that it will serve as a shield to prevent lumps of coal from escaping over the sides of the scuttle in the act of tilting the latter to replenish a fire, and, finally, after the scuttle is emptied of coal, this plate A serves as a screen for separating ashes from the cinders and partially-burned coal.

The scuttle, as thus described, may be fitted with any suitable cover, of any material, fitted in any of the known ways, to prevent dust arising from the screening of the coal. Thus far I have described the scuttle as fitted with a hinged screen; but I do not limit myself to this mode, but declare my invention to cover

any kind of arrangement of the screen, either movable, removable, or fixed, by which the scuttle is divided by the screen into two compartments, as may be best adapted to various circumstances.

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

1. Providing a coal-scuttle with a hinged plate, which is so arranged within the scuttle

as to serve as a screen for sifting coal dust and ashes or as a shield for preventing lumps of coal from escaping over the sides of the scuttle during the act of replenishing a fire.

2. Constructing the hinged plate A with flanged sides, substantially as described.

S. B. SEXTON.

Witnesses:

R. T. CAMPBELL,
E. SCHAFER.