

D. Boynton, Comb^{ined} Shovel & Sifter.
assigned to Self, W. G. C. Burrows & Arthur E. Whitney

72160

PATENTED
 DEC 17 1867

Fig: 1.

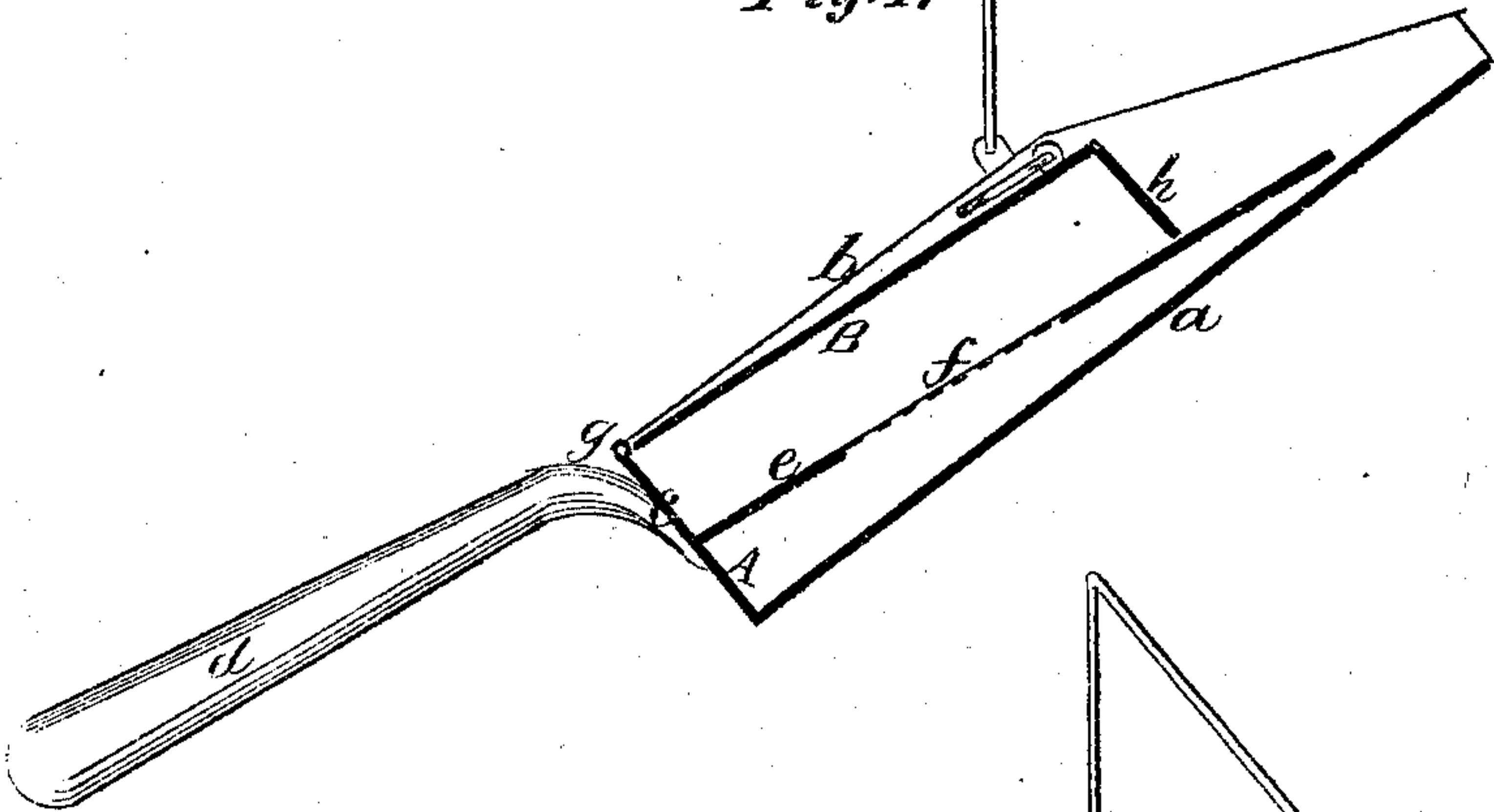
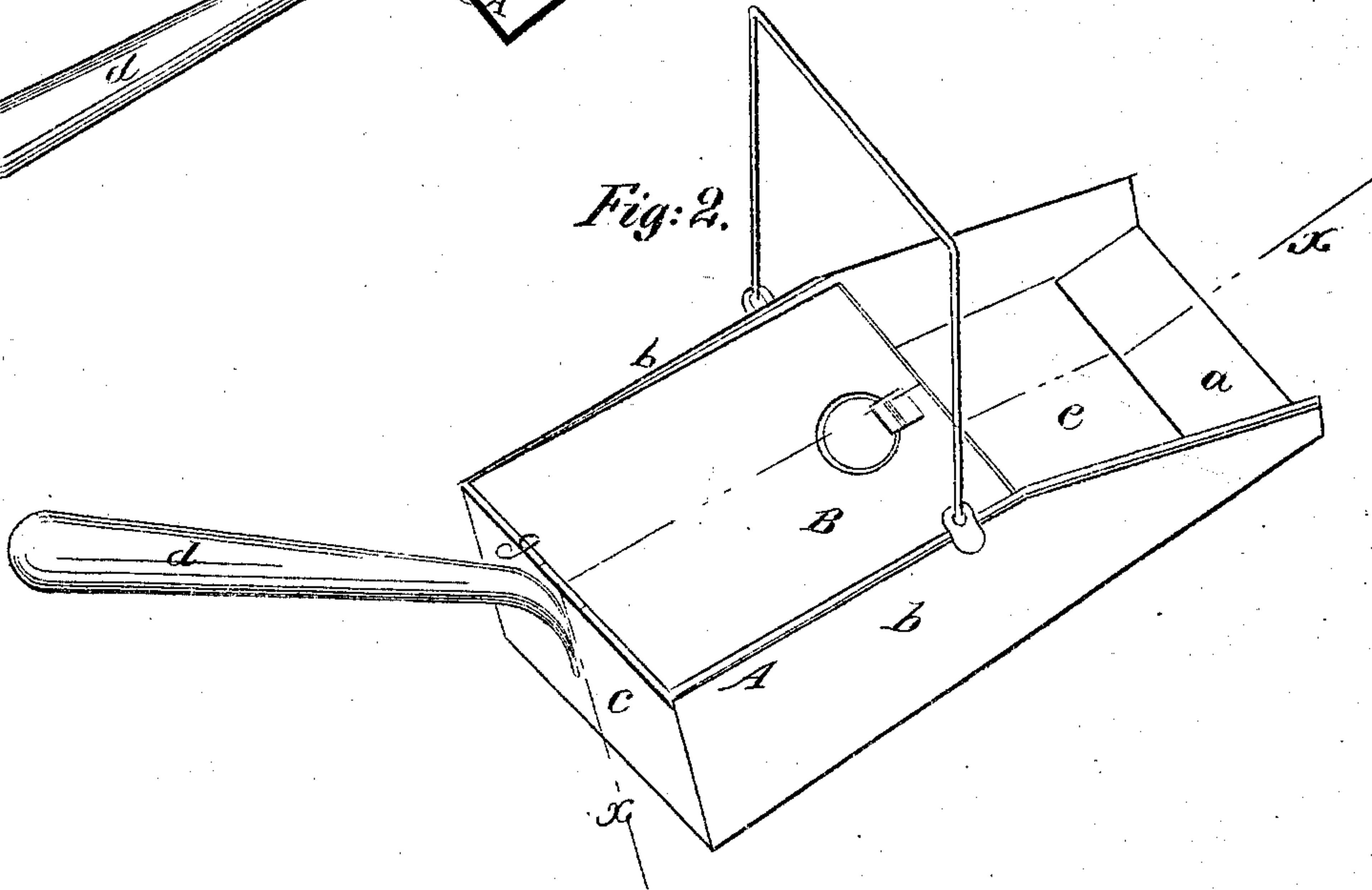


Fig: 2.



Witnesses
Theo. Insche
W. G. C. Burrows

Inventor
D. Boynton
Per [Signature] Attorneys.

United States Patent Office.

D. BOYNTON, OF ST. JOHNSBURY, VERMONT, ASSIGNOR TO HIMSELF,
H. G. O. BURROWS, AND ARTHUR E. WHITNEY.

Letters Patent No. 72,160, dated December 17, 1867.

COMBINED SHOVEL AND SIFTER.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, D. BOYNTON, of St. Johnsbury, in the county of Caledonia, and State of Vermont, have invented a new and improved Combined Shovel and Sifter; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

This invention relates to a new and improved combination of a fire-shovel and sifter; and it consists in providing a shovel with a supplemental bottom, in which a screen is inserted, the bottom being so arranged or disposed within the shovel as to admit of a separate discharge for the ashes, and the shovel provided with a lid or cover; all being arranged in such a manner that the ashes may be shovelled up and the cinders separated from it, and the ashes discharged from the shovel, so as to leave the cinders clean and in good condition to be placed upon the fire whenever required. In the accompanying sheet of drawings—

Figure 1 is a longitudinal central section of my invention, taken in the line *x x*, fig. 2.

Figure 2, a perspective view of the same.

Similar letters of reference indicate corresponding parts.

A represents a fire-shovel, which may be constructed of sheet metal or cast iron, and composed of a bottom, *a*, two sides *b b*, a back, *c*, and a handle, *d*. The two pieces *b b* are bevelled or inclined downward at their front parts, and within the shovel there is permanently secured a supplemental bottom, *e*, which is a short distance above the bottom *a*, and slightly out of parallel therewith, as shown clearly in fig. 1; the front edge of *e* being but a short distance above the bottom *a*, as shown in fig. 1. Within this supplemental bottom *e*, there is inserted a screen, *f*, and a cover or lid, B, is secured by a hinge or joint, *g*, to the upper edge of the back, *c*, of the shovel; said lid or cover having a pendent flap, *h*, at its front edge, so that when the lid or cover is down, a perfect box is formed over the supplemental bottom *e*.

In using the device, the cover or lid B is raised and the ashes scooped up. A portion of ashes may pass underneath the supplemental bottom *e*, but no cinders, the space between the front end of *e* and the bottom *a*, not being wide enough to receive them. The main portion of all the ashes and all of the cinders will pass upon the supplemental bottom *e*, and the cover or lid B being then put down, and the shovel shook or vibrated, the ashes above or upon *e* will pass through the screen *f*, while the cinders will be retained above it, and by inclining the front end of the shovel downward, the ashes will be discharged, the cover or lid holding the cinders, which may be discharged by raising the cover or lid.

The device is extremely simple, may be constructed at a small cost, and will prove to be a very convenient article.

I claim as new, and desire to secure by Letters Patent—

A fire-shovel, A, provided with a supplemental bottom, *e*, containing a screen, *f*, and also provided with a cover or lid, B, all arranged in the manner substantially as and for the purpose set forth.

The above specification of my invention signed by me, this 27th day of September, 1867.

D. BOYNTON.

Witnesses:

GEO. C. AUSTIN.

E. F. BROWN.