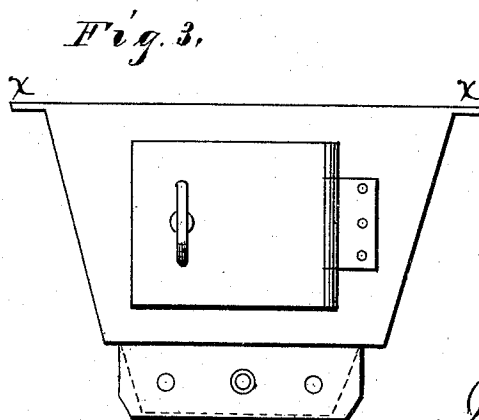
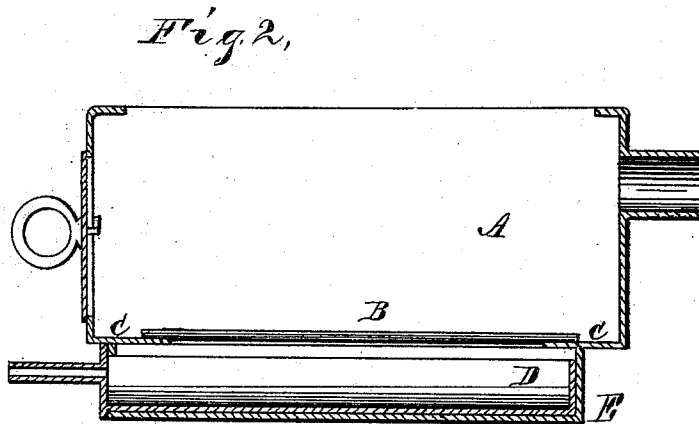
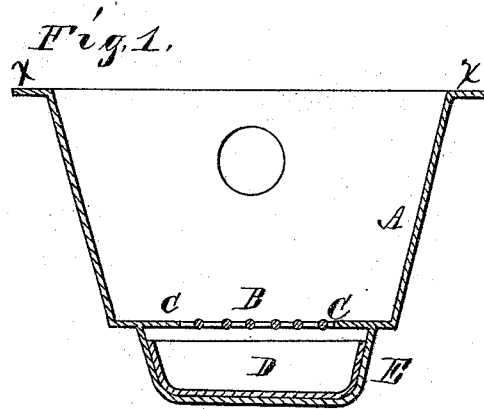


W. KLEIN.

FIRE-BOX FOR A WASHING-MACHINE.

No. 172,129.

Patented Jan. 11, 1876.



WITNESSES  
*Chas. M. Bart.*  
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 ATTORNEY

# UNITED STATES PATENT OFFICE.

WILLIAM KLEIN, OF ST. PETER'S, MINNESOTA.

## IMPROVEMENT IN FIRE-BOXES FOR A WASHING-MACHINE.

Specification forming part of Letters Patent No. **172,129**, dated January 11, 1876; application filed December 23, 1875.

*To all whom it may concern:*

Be it known that I, WILLIAM KLEIN, of St. Peter's, in the county of Nicollet and in the State of Minnesota, have invented certain new and useful Improvements in Fire-Boxes for Washing-Machines; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

My invention is intended as an improvement upon the washing-machine for which Letters Patent No. 107,431 were granted to John B. Woolsey, September 13, 1870; and it consists in an improved construction of the fire-box under the bottom of the washing-machine box, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a transverse vertical section of my improved fire-box. Fig. 2 is a longitudinal vertical section of the same, and Fig. 3 is an end view thereof.

A represents the flaring fire-box, open at the top, and provided with flanges *x x* around its upper edge, to be attached to the bottom of the washing-machine box in any suitable manner; or it may be attached by means of a strap, as described in the patent of Woolsey

above referred to. B represents the fire-grate, formed in the bottom of the box A, the bottom C being left solid all around the grate, as shown in Figs. 1 and 2. Below this bottom is what is called a "drop-bottom," E, extending beyond the grate B on all sides, and in the same is placed an ash-drawer, D, which is larger than the area covered by the grate B, so that all ashes will fall into said drawer, and not get into the drop-bottom E. In the front of the ash-drawer are suitable draft-openings.

I am aware that portable stoves or portable furnaces having a fire-box, grate, and ash-drawer are not new, and I do not claim such, therefore, as being my invention.

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

As an improvement on the washing-machine patented by J. B. Woolsey, September, 13, 1870, the within-described stove, consisting of the elongated fire-box A, with flanges *x x* and solid bottom C, having center grate B, extended drop-bottom E, and extended ash-drawer D, all as shown and described.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 24th day of March, A. D. 1875.

WILLIAM KLEIN. [L. S.]

Witnesses:

G. S. IVES,  
J. M. MASON.