B. S. HARRINGTON.

Fire-Kindler.

No. 160,054. Patented Feb. 23, 1875.

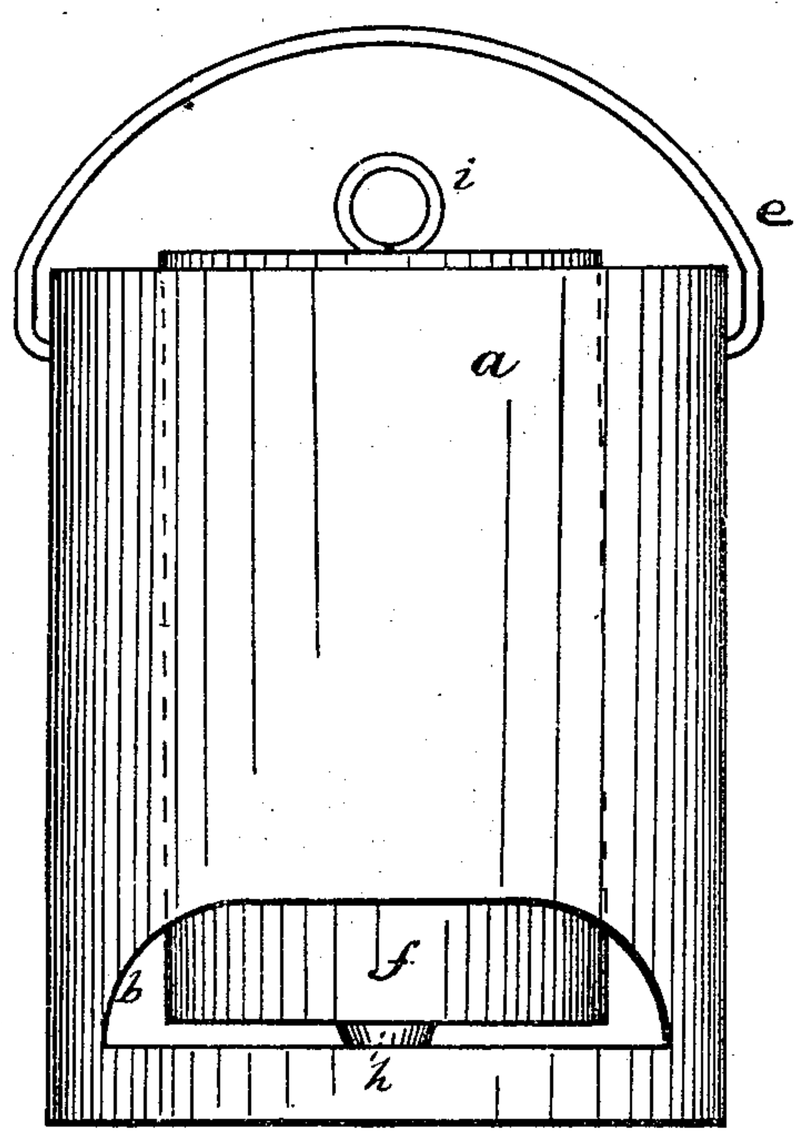
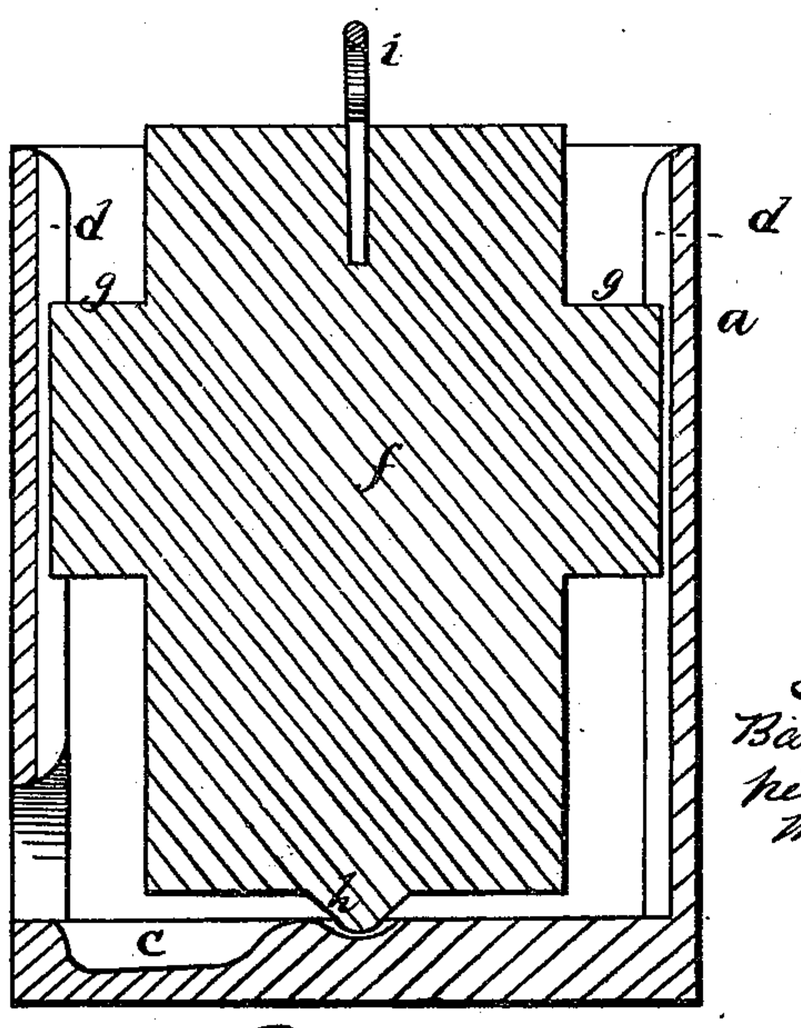


Fig. 1.



Witnesses:-
Frank H. Jordan.
D. K. Pingree

Inventor:-
Barzilla S. Harrington,
per
Wm. Henry Clifford
atty.

Fig. 2.

UNITED STATES PATENT OFFICE.

BARZILLA S. HARRINGTON, OF CHINA, MAINE.

IMPROVEMENT IN FIRE-KINDLERS.

Specification forming part of Letters Patent No. **160,054**, dated February 23, 1875; application filed January 18, 1875.

To all whom it may concern:

Be it known that I, BARZILLA S. HARRINGTON, of China, in the county of Kennebec and State of Maine, have invented certain new and useful Improvements in Fire-Kindlers; 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 which it pertains to make and use the same, reference being had to the accompanying drawings and to the letters of reference marked thereon, which form a part of this specification.

Figure 1 is a side elevation of my invention. Fig. 2 is a vertical transverse section.

Same letters show like parts.

The object of my invention is to produce an improvement in fire-kindlers, or in devices for igniting coal and other fires. It consists of a bucket-shaped receptacle provided with a draft-flue and drip-cup or depression, the said receptacle carrying within it a removable core composed of some porous absorbent materials, such as asbestus and clay, for the purpose of retaining the inflammable oil used for the required purpose.

My invention may be thus described in detail:

a shows the bucket-shaped receptacle; *b*, the draft-flue therein; *c*, the drip-cup; *d*, longitudinal grooves cut on the inner side of the receptacle *a*; and *e* shows a bail by which the device can be conveniently transported. *f* shows the removable porous core which partially fills the receptacle *a*, and is provided with projections or flanges *g*, which fit in the grooves *d*, thus enabling the said core in conjunction with its point *h* to be accurately centered within the receptacle *a*. *i* represents a handle or ring by which the core may be removed from the receptacle.

The operation is as follows: The porous head or core is first thoroughly saturated with the inflammable substance, then placed within the receptacle *a*, as before described. The whole device is then placed below or suspended from beneath the grate of the stove having the fuel to be ignited. The match is then applied to the core *f* through the draft-opening *b*. The oil igniting, a fervent heat is produced which readily ignites even the hardest coal without the use of any kindlings. One or more of these devices may be used at the same time under the grate, if desired. *c* shows a drip-receptacle or depression in the lower part of *a*, which catches any of the oil that drops from the core *f*, thus preventing the same from running out around the outside of the bottom part of *a*, and holding it in a position where it will be sure to be ignited from the heat from the core. The purpose of the opening *b* near the bottom of the receptacle *a*, is not only that the inflammable oil within the core *f* may be readily ignited, but also that when so ignited a draft is obtained through and by means of this opening, which facilitates the burning of the oil absorbed by the core.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination, in a fire-kindler, of a bucket-shaped receptacle having a draft-opening and a drip-cup, and a removable porous absorbent core, substantially as described.

2. The combination, in a fire-kindler, of a bucket-shaped receptacle, *a*, having the draft-opening *b*, drip-cup *c*, and grooves *d*, and a removable porous absorbent core, *f*, having the flanges *g* and point *h*, substantially as described.

3. Igniting coal and other fuel from below the grate by means of a fire-kindler, consisting of a bucket-shaped receptacle provided with a draft-opening, and carrying within it a porous absorbent core, substantially as herein described.

In testimony that I claim the foregoing as my own, I affix my signature in presence of two witnesses.

B. S. HARRINGTON.

Witnesses:
B. HARRINGTON,
M. F. HARRINGTON.