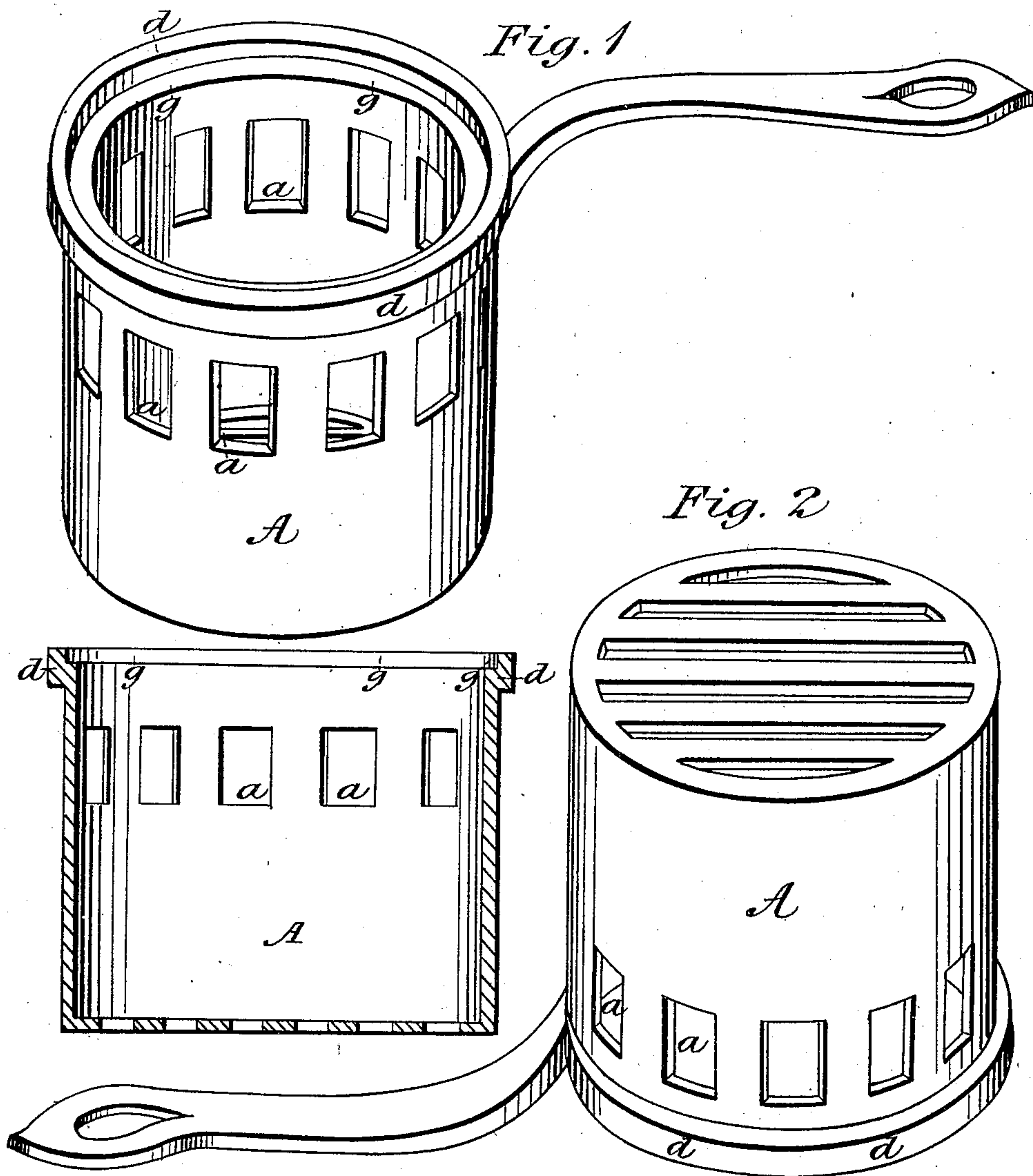


J. HULBERT, Jr.

Portable Furnace.

No. 101,621.

Patented April 5, 1870.



Witnesses:

John Carlisle
William De Thompson

Inventor:

John Hulbert Jr.
Per Artemas Roberts
attys

United States Patent Office.

JOHN HULBERT, JR., OF RICHMOND, INDIANA.

Letters Patent No. 101,621, dated April 5, 1870.

PORTABLE FURNACE

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, JOHN HULBERT, Jr., of Richmond, in the county of Wayne and State of Indiana, have invented a new and useful Fuel Economizer, of which the following is a specification.

The nature of my invention relates to the construction and use of a metal basket that is suspended beneath a kettle or other utensil in any ordinary stove, its object being to contain a limited amount of fuel, by the combustion of which water may be boiled or food cooked without heating the entire stove, the products of combustion meanwhile being carried off by the draught through the stove-flues in the usual manner.

By means of this arrangement a great saving of both time and fuel is effected, with but a trifling outlay for the requisite apparatus.

Description of Drawings.

Figure 1 is a perspective view, showing the upper portion of the basket.

Figure 2 represents the same in an inverted position.

The basket A is provided with a flange or rim, *d*, that rests on the top plate of the stove, its upper portion being extended above the basket, forming a re-

bate, *g*, thus providing for the use of a vessel corresponding in size to the opening in the stove.

The bottom of the basket consists of a grate, upon which the fire is built.

Openings *a a* in the sides allow the escape of smoke and other products of combustion, which pass out through the stove-flues in the same manner as if the fire were built directly in the fire-box of the stove.

The entire apparatus may be made of either cast or sheet-iron, or wire, and of a size corresponding to that of the utensils of the stove for which it is designed.

Coke, charcoal, peat, wood chips, &c., may be used as fuel, a very small quantity only being required, for the reason that the full intensity of the heat acts directly upon the bottom of the vessel, instead of being diffused throughout the stove.

Having thus fully described my said invention, I claim—

A metal basket for containing fuel, when constructed with a grated bottom and openings *a a* in the sides, substantially as and for the purpose herein set forth, as an article of manufacture.

Witnesses: JNO. HULBERT, JR.

A. L. STUDY,
ARTEMAS ROBERTS.