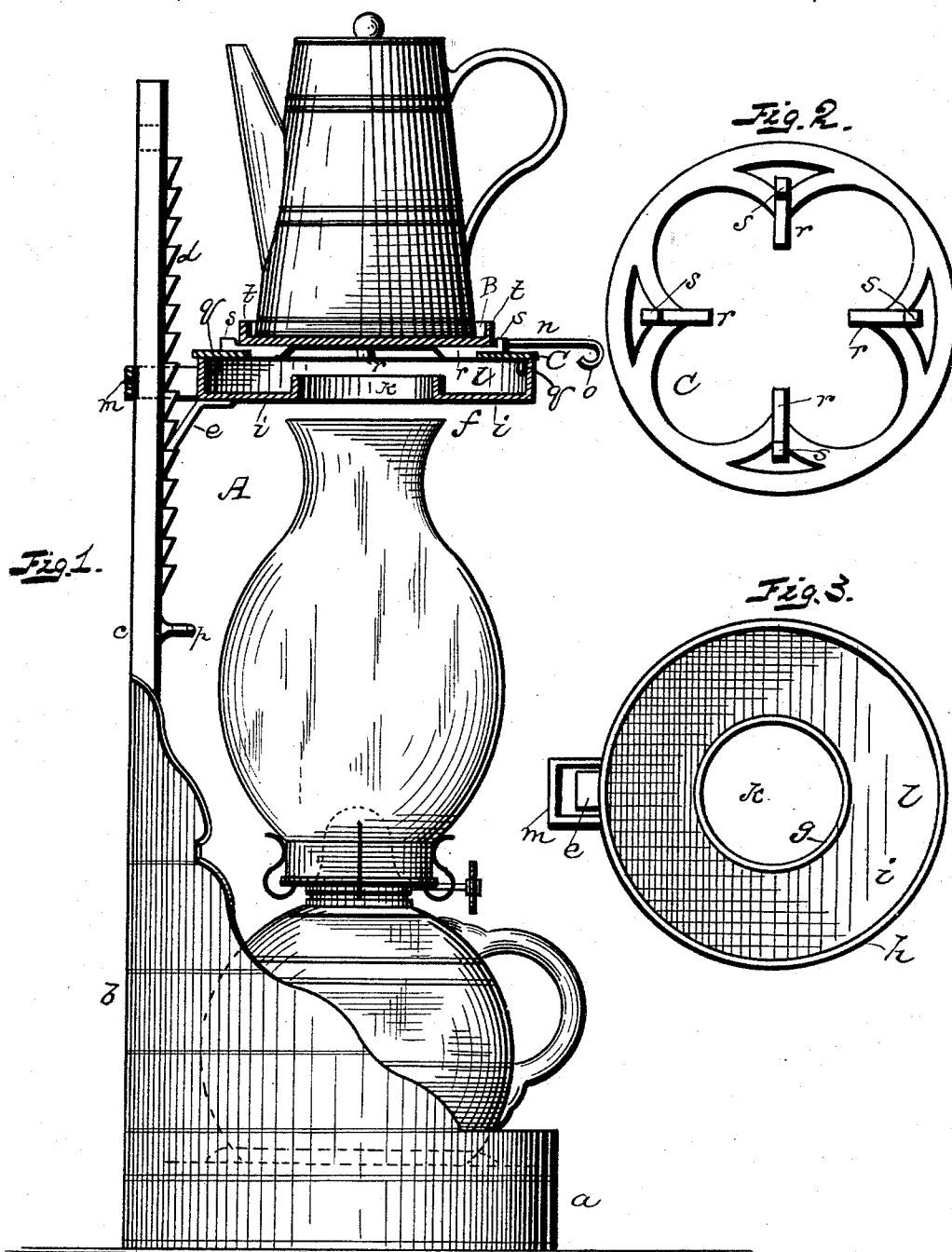


(No Model.)

J. HOUSE.
PORTABLE SAFETY HEATER.

No. 485,008.

Patented Oct. 25, 1892.



WITNESSES
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UNITED STATES PATENT OFFICE.

JOHN HOUSE, OF CHESTERTOWN, MARYLAND, ASSIGNOR OF TWO-THIRDS
TO IDA V. CATLIN, OF SAME PLACE, AND JOB SMITH, OF ANNAPOLIS,
MARYLAND.

PORTABLE SAFETY-HEATER.

SPECIFICATION forming part of Letters Patent No. 485,008, dated October 25, 1892.

Application filed December 2, 1891. Renewed September 28, 1892. Serial No. 447,107. (No model.)

To all whom it may concern:

Be it known that I, JOHN HOUSE, a citizen of the United States, residing at Chestertown, in the county of Kent and State of Maryland, have invented certain new and useful Improvements in Portable Safety-Heaters; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has relation to improvements in portable heaters of that class designed to receive a lamp or gas-jets, and it is an improvement on Letters Patent granted to me on the 23d day of June, 1891, and numbered 454,537; and it consists in the novel construction, arrangement, and combination of parts of which it is composed, all as will be herein-after more fully explained, and particularly pointed out in the appended claims.

The annexed drawings, to which reference is made, fully illustrate my invention, in which—

Figure 1 represents a side view, part sectional, of my improved portable safety-heater. Fig. 2 is a plan view of the casting or supporting-ring. Fig. 3 is also a plan view of the bracket or shelf.

Referring by letter to the accompanying drawings, A designates the portable safety-heater consisting of the base *a*, in the rear of which arises a suitable guard or shield *b*, formed integral with the base, which partially incloses the floor of the base, serving to shield the eyes from the light, and also provides means whereby a lamp or other device placed upon the floor of the base *a* is prevented from accidental displacement. At the rear portion of said base rises a standard *c*, which is secured firmly to the base, thus virtually forming a part thereof and extending a suitable height, having on its inner face a rack *d*, which is designed to receive a tooth or short arm *e* on the under side of the bracket *f*. This bracket *f* consists of an inner and outer rim or flanges *g* and *h*, that are connected to one another by a floor *i*, leaving a central opening *k* and a circular space *l* between the two rims. The inner rim *g* does not extend as high as

the outer rim, thus permitting an enlarged and unobstructed space *l* within said bracket. This bracket is also provided with a guide-sliding loop *m*, which is secured thereto and is designed to play vertically upon the standard. The loop, being somewhat larger than the thickness of said standard, allows the bracket to be readily adjusted to different heights. The construction just described presents a substantial device to receive an oil-lamp or other device by which a flame is procured for heating articles placed upon the receiving plate or receptacle B. This receptacle serves the double purpose both to receive any waste water from a vessel or other cooking utensil placed thereon, preventing the same from falling upon the lamp, and a heating-plate, which is heated and kept hot from a flame below. This plate is provided with a handle *n*, having a hooked end *o*, by which it may be hung upon the loop *p*, secured to the standard when not in use. Said plate when in position on the bracket rests upon a skeleton frame or casting C, which latter in turn is supported upon the outer rim or flange *h* of the bracket, and the same is provided with lugs *q* on its under side that engage the inner wall of said rim, whereby the casting is prevented from accidental displacement. Projecting inwardly and forming a part of this casting are arms *r*, which are raised or thickened to extend somewhat higher at this point than the plate or casting proper, and said arms are each provided with a lug *s*, extending upwardly, as shown in Fig. 1 of the drawings, whereby the plate is retained in position on said arms and centrally above the central opening in the bracket. This plate or water and grease receptacle has a circular flange or rim *t*, extending upwardly and which serves to retain any overflow from a vessel or other utensil placed thereon, and the inwardly-projecting arms of the casting serve, also, as a rest for a vessel or other cooking devices, as well as for supporting sad-irons for heating the same. The plate or overflow-receptacle when the casting is thus used is removed. It will thus be observed from the above description and by reference to

the annexed drawings that when the casting is in position on the bracket a draft or outlet for the flame is provided between the bottom of a vessel and the casting, whether the over-
 5 flow-receptacle is in position or otherwise, and it will be readily seen that the bracket can be adjusted vertically to suit the different heights of lamps or gas-jets, the same, (the bracket,) when it is desired to adjust it, is simply raised slightly, thus disengaging the tooth
 10 or arm from the teeth of the rack, when the said bracket can be raised or lowered at will, letting the tooth again engage the said rack when at the desired height, thus bringing the
 15 bracket as near the flame as desired, and the device, as herein described and shown, can be readily packed for shipping, requiring very little space, and will be found most desirable for the sick-room, where articles can
 20 be quickly cooked or warmed and liquids boiled and kept hot or warm, as desired.

I do not confine myself to any particular device for producing the heating-flame, as the common drop-light and various devices
 25 now on the market, as well as the ordinary lamp, can be set upon the base, and it is durable as well as ornamental, and at the same time cheap to manufacture.

Having thus described my invention, what

I claim, and desire to secure by Letters Patent, is—

1. A stove consisting of a base adapted to hold a lamp and provided with a standard *c*, an adjustable bracket *f* on the standard, formed with a central opening *k*, having a vertical annular flange *g* surrounding it and an
 35 outer vertical flange *h* higher than the flange *g*, and the skeleton frame *C*, adapted to rest on the outer flange *h*, substantially as specified.

2. A stove consisting of a base adapted to hold a lamp and provided with a standard *c*, an adjustable bracket *f* on the standard, formed with a central opening *k*, having a vertical annular flange *g* surrounding it and an
 45 outer vertical annular flange *h* higher than the flange *g*, the skeleton frame *C*, adapted to rest on the outer flange of the bracket, and the plate *B*, formed with the circular rim *t*, all arranged and combined substantially as and for the
 50 purpose specified.

In testimony whereof I affix my signature in presence of two witnesses.

JOHN HOUSE.

Witnesses:

RANDOLPH WILLISON,
 JNO. R. SENOUSE.