

(No Model.)

L. B. KELLER.  
PORTABLE STOVE HOOD.

No. 603,730.

Patented May 10, 1898.

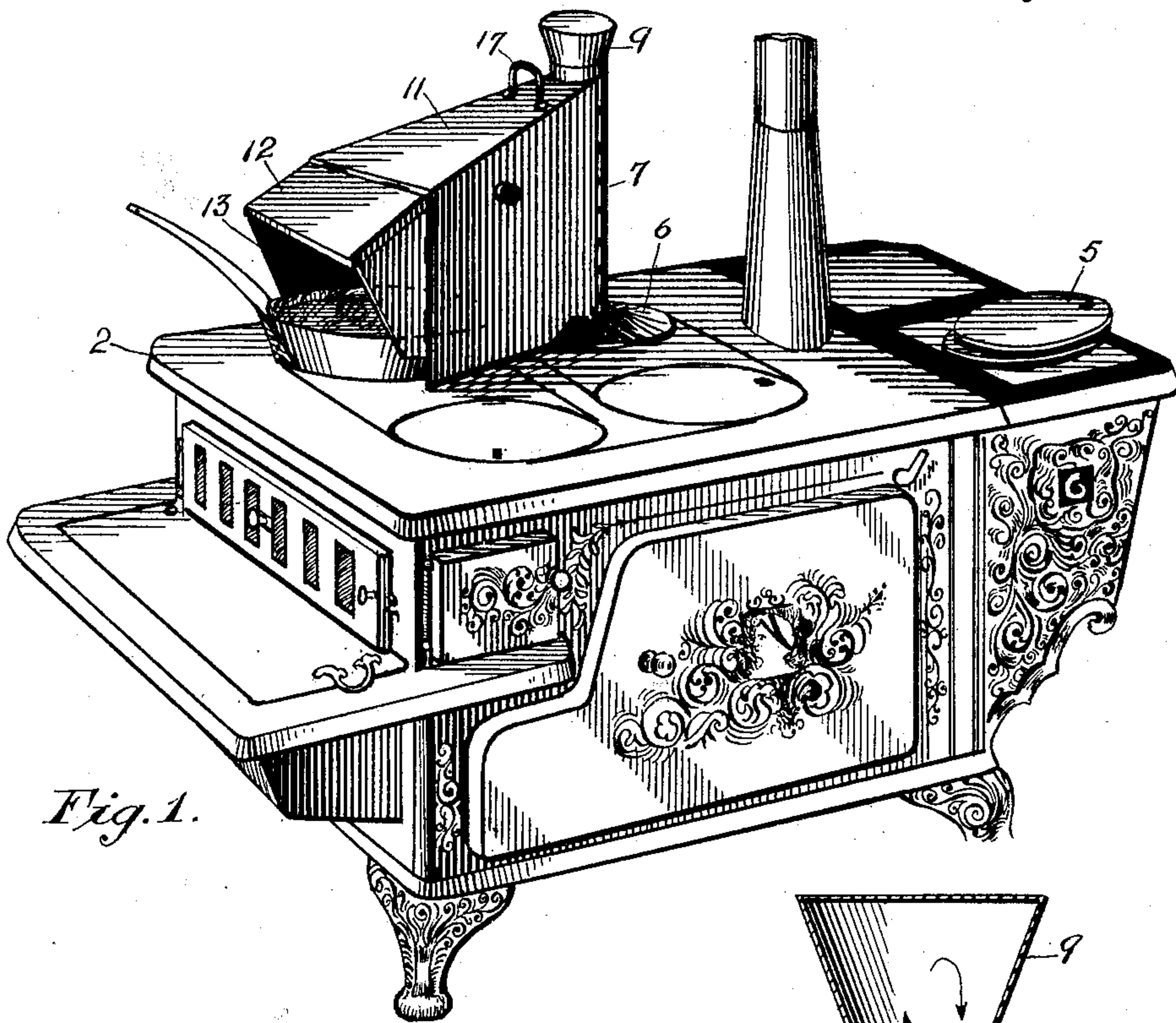


Fig. 1.

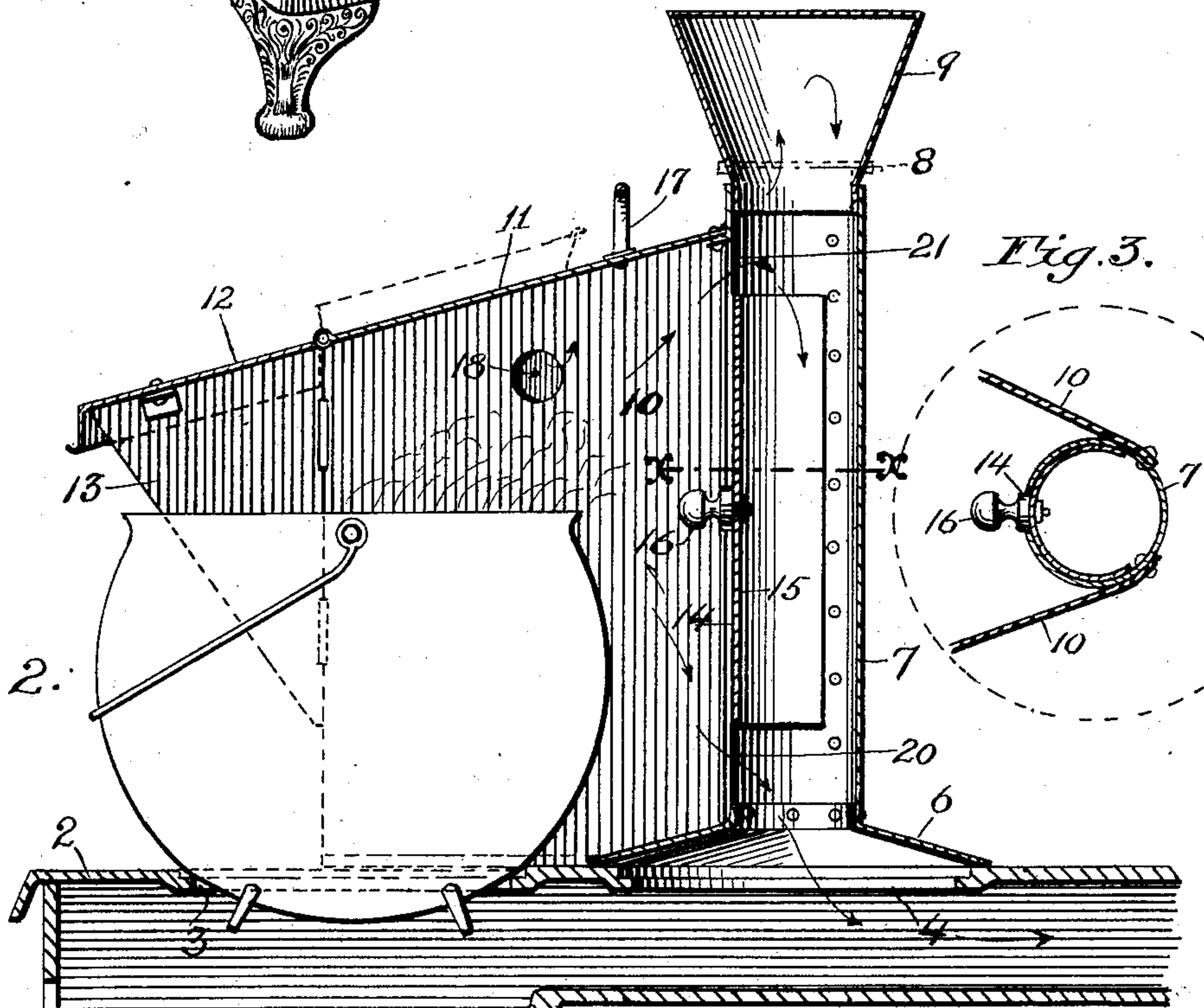


Fig. 2.

Fig. 3.

Witnesses:  
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# UNITED STATES PATENT OFFICE.

LOUIS B. KELLER, OF MINNEAPOLIS, MINNESOTA.

## PORTABLE STOVE-HOOD.

SPECIFICATION forming part of Letters Patent No. 603,730, dated May 10, 1898.

Application filed March 16, 1897. Serial No. 627,786. (No model.)

*To all whom it may concern:*

Be it known that I, LOUIS B. KELLER, of the city of Minneapolis, county of Hennepin, State of Minnesota, have invented certain  
5 new and useful Improvements in Portable Stove-Hoods, of which the following is a specification.

My invention relates to portable stove-hoods adapted for use upon stoves or ranges  
10 and whereby the steam, fumes, and odors from things cooking upon the stove are drawn off and carried into the chimney instead of rising into the room and finding their way throughout the house.

15 The object of the invention is to provide a portable hood adapted to accommodate a single cooking utensil at a time and which may be used upon any stove or range and with a slight modification made applicable to gas or  
20 gasolene stoves.

A further object of the invention is to provide a device wherein the cooking utensils may be placed or from which the same may be removed without moving said device or  
25 hood, and, further, to provide a portable stove-hood wherein the draft may be regulated, and, further, to provide a device to accomplish the above results with the least possible expense, whereby the hoods are placed with-  
30 in the reach of every one.

The invention consists in general in the constructions and combinations of parts hereinafter described, and particularly pointed out in the claims.

35 The invention will be more readily understood by reference to the accompanying drawings, in which—

Figure 1 is a perspective view showing a stove and a portable hood thereon embodying my invention. Fig. 2 is an enlarged sectional view of the portable hood. Fig. 3 is a  
40 partial horizontal section of the same substantially on the line  $x x$  of Fig. 2.

In the drawings, 2 represents a cook-stove,  
45 two holes 3 and 4 of which are practically covered by the portable hood. The lids 5 are removed from these holes.

6 represents a low and preferably conical cover for the rear hole 4, and the same carries and serves as a base for the upright tube  
50 7, which is preferably of less than one-half the diameter of the stove-hole. The upper

end of this pipe is closed by a low cap 8 (see dotted lines, Fig. 2) or by a taller condenser-cap 9, having a greater area upon which the  
55 steam is cooled and thus prevented from creating a back pressure in the hood, which would cause the smoke and odors to be forced outward into the room. In plan section the hood is V-shaped, the sides 10 thereof diver-  
60 ging from the pipe or flue 7. These sides extend out to about the middle of the front hole in the stove when the flue 7 is central over the rear hole. The lower edges rest upon the top of the stove. The top of the  
65 hood is formed by the inclined plate or seat 11, which is higher at the back than in front, the same sloping toward the front of the stove. The top 11 is continued in the hinged section 12 and the sides in the hinged flaps 13. In  
70 the forward side of the tube or pipe 7 is a slot 14, and 15 represents a semicylindrical slide arranged within the pipe or flue 7 and having a knob 16 extending through the slot 14 and by which the slide may be raised and  
75 lowered. The slot is preferably enlarged at the top and bottom of the pipe 7, and the slide 15 is a length less than the pipe 7, so that when adjusted at a middle height quite a large opening will be left above and be-  
80 neath the same leading into the pipe 7 and from thence into the stove.

17 represents a handle on the top of the hood, by means of which the hood may be carried from place to place. In one or both  
85 sides of the hood I preferably provide a hole 18, closed by a suitable cap or slide which may be removed to admit the spout of a tea-kettle or of a kettle-cover. In this way where  
90 suitable covers are provided for the kettles the odors and steam may be drawn off from several kettles through a single hood.

The arrows in Fig. 2 illustrate the currents of air, steam, and smoke which rise from the kettle that sits on the stove beneath the hood.  
95 If a high kettle is being used, the steam therefrom would naturally rise close to the top of the hood and a little of it would be exhausted through the lower hole 20, beneath the slide 15. Hence in such a case the slide would be  
100 slipped down to enlarge the hole 21 above it, so that the greater volume of steam, &c., would pass into the top of the pipe 7 and its condenser and thence be drawn downward



into the stove and thence out through the chimney. On the other hand, if, as shown in Fig. 1, food is being cooked in a low skillet or frying-pan, the slide will be raised, so that  
 5 the smoke, &c., would be allowed the shortest path between the frying-pan and the stove-hole 4 and the chimney. When the hinged top section 12 and the sides 13 are folded back, the hood will occupy but little  
 10 space. The hinged top is convenient also, as it may be thrown back to permit easy access to the contents of the utensil upon the stove.

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

1. A portable hood, comprising top and side walls, in combination, with the down pipe or flue, open at its lower end and having a condenser at its upper end, said down-pipe pro-  
 20 vided with an opening in its inner side, substantially as described.

2. A portable stove-hood, comprising top and side walls, in combination, with the down-

pipe open at its lower end and having a flange or base to cover a stove-hole, said pipe being  
 25 formed within the side walls and having a slot or opening in its inner side and a slide provided in said slot, as and for the purpose specified.

3. A portable stove-hood, comprising an in-  
 30 clined top and diverging side walls, said side walls together forming a V, in the opening of which a utensil may be placed, a down pipe or flue vertically arranged in the angle between the side walls, said pipe having a slot  
 35 or opening in its inner side and provided with a flaring base of a size to cover a stove-hole, and said top slanting downwardly from the upper end of said pipe, substantially as de-  
 40 scribed.

In testimony whereof I have hereunto set my hand this 12th day of March, A. D. 1897.

LOUIS B. KELLER.

In presence of—

C. G. HAWLEY,  
 RICHARD PAUL.