(No Model.)

R. T. BURCHELL.

STOVE LID.

No. 466,999. Patented Jan. 12, 1892.

Fig. 1.

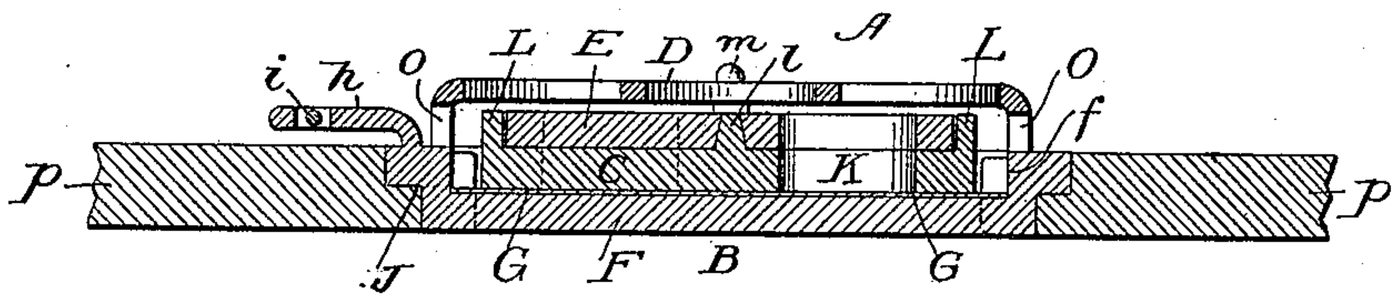

Fig. 2.

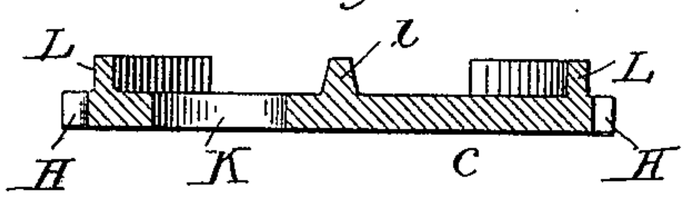

Fig. 3

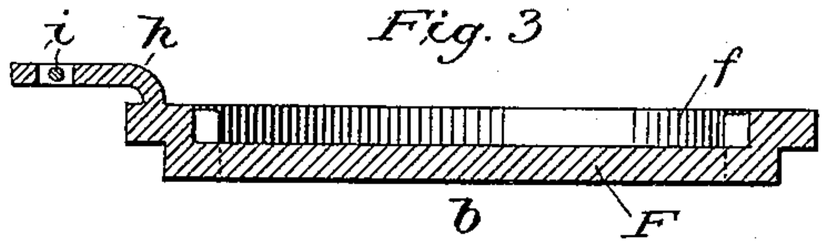

Fig. 4.

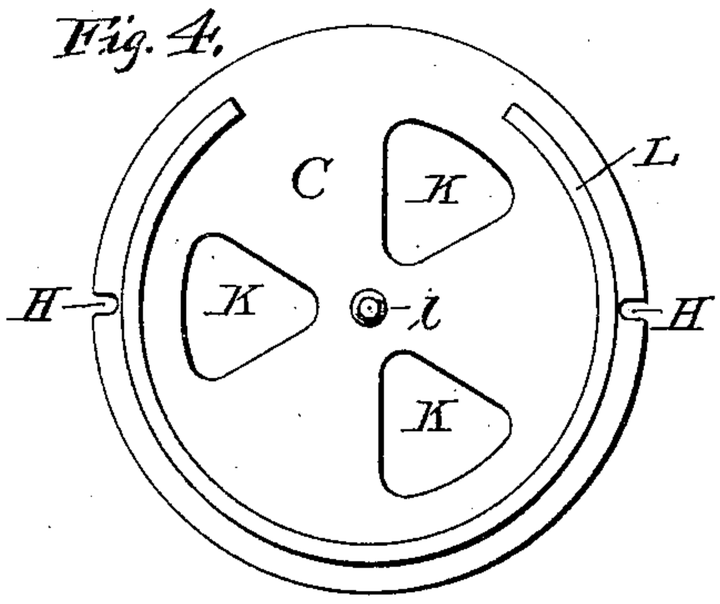

Fig 5

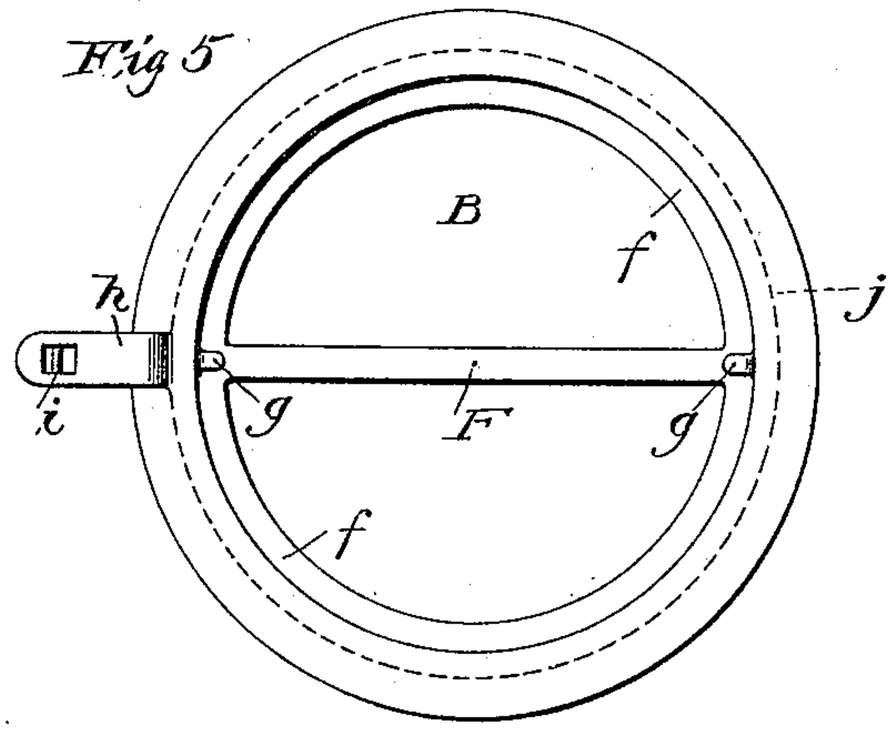

Fig. 7.

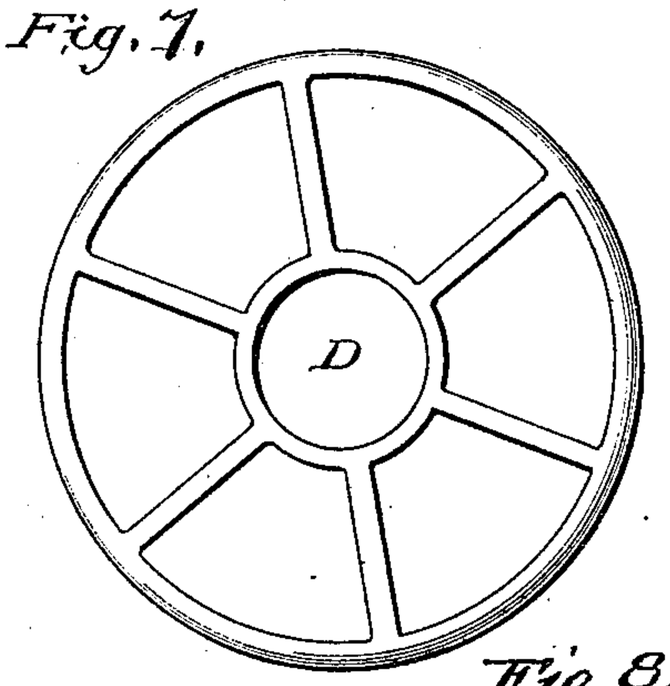

Fig. 6.

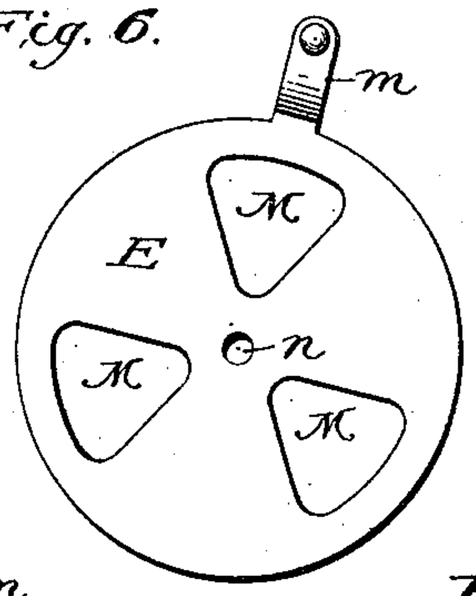

Fig. 8.

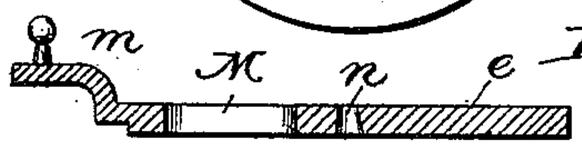

Fig. 9.

Witnesses:
Calvin E. Swayze
J. Walter Phares

Inventor:
Robert T. Burchell

UNITED STATES PATENT OFFICE.

ROBERT T. BURCHELL, OF TRENTON, NEW JERSEY.

STOVE-LID.

SPECIFICATION forming part of Letters Patent No. 466,999, dated January 12, 1892.

Application filed June 1, 1891. Serial No. 394,797. (No model.)

To all whom it may concern:

Be it known that I, ROBERT T. BURCHELL, a citizen of the United States, residing at Trenton, in the county of Mercer and State of New Jersey, have invented a new and useful Stove-Lid, of which the following is a specification.

The objects of my improvement are, first, to regulate the heat to just the exact point required in cooking; second, to facilitate cooking and save the labor of removing the article while the lid is being taken off to place it directly over the fire; third, to get a greater amount of heat in the room from the same quantity of fuel. I attain these objects by the construction illustrated in the accompanying drawings, in which—

Figure 1 is a vertical section through the stove lid and plate. Fig. 2 is a vertical section through the bottom valve-plate. Fig. 3 is a similar view of the ring. Fig. 4 is a plan view of the lower valve-plate. Fig. 5 is a plan of the ring. Fig. 6 is a plan of the upper valve-plate. Fig. 7 is a plan of the guard. Fig. 8 is a vertical section of the same, and Fig. 9 is a vertical section of the upper valve-plate.

In the drawings, the letter B designates an annular plate or ring designed to fit in a stove-hole, in which it is supported by a rabbet J therein engaging a corresponding rabbet at the edge of said hole. A rabbet *f* is also formed on the corner edge of the upper surface of the ring, on which is supported a mica plate G.

F is a diametric brace, the upper surface of which is flush with the bottom of the rabbet. On one side of the ring is a projection having a lifter-catch *i* therein.

C designates a circular valve-plate, which is placed on the mica disk G, and is prevented from turning in the ring C B by means of notches or recesses H in its marginal edge, which engage lugs or projections *g*, formed in the edge of the rabbet *f*. In this plate are openings K and centrally thereof and of the plate is a stud or axial projection *l*. Said plate also has a raised annular rim L thereon.

E designates the upper valve-plate, which is placed on the plate C inside of the rim L and having a central aperture *n*, which engages and has a bearing in the projection *l*. This plate has openings M therein, which are designed to register with the openings K in the lower plate, when desired, the solid portions of the plate between said openings being adapted to close said apertures K, either wholly or partially, by turning said plate E on its bearing. For this purpose it is provided with the handle *m*, to receive which the rim L is cut away at one side, as shown, the edges of said cut-away portion serving as stops for said handle when the valves are entirely open or closed.

D designates a circular skeleton guard, which is placed over the valve-plates and supported on the ring B by lugs *o*, formed on its under surface. This guard serves to take the weight of any article placed thereon and prevents it from bearing on the said valve-plates.

The dish or receptacle containing an article to be cooked is placed on said guard and the upper valve-plate is turned to bring its apertures into register with those of the lower plate to the extent desired for the requisite amount of heat.

When it is desired to turn the heat into the room, the upper plate is turned so as to open the apertures to their full extent, and, if desired, the guard D and plates E and C may be removed entirely, leaving only the ring B and its mica plate or plates.

I am aware that prior to this invention valved stove-lids have been known and used, but not of the construction above set forth, and pointed out in the following claim.

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

A stove-lid comprising the ring B, rabbeted to fit a stove-hole and provided with an inner rabbet *f* and with a diametric brace F, a mica plate supported on said brace and rabbet, a valve-plate C, supported on said mica plate and prevented from turning, said plate having apertures K, axial projection *l*, and rim L, a second apertured plate E above the plate C and having a bearing on said pin, said plate E having a handle working in a cut-away portion of the rim L, and a skeleton guard having depending lugs supported upon the ring B, substantially as specified.

ROBERT T. BURCHELL.

Witnesses:
C. E. SWAYZE,
J. W. PHARES.