

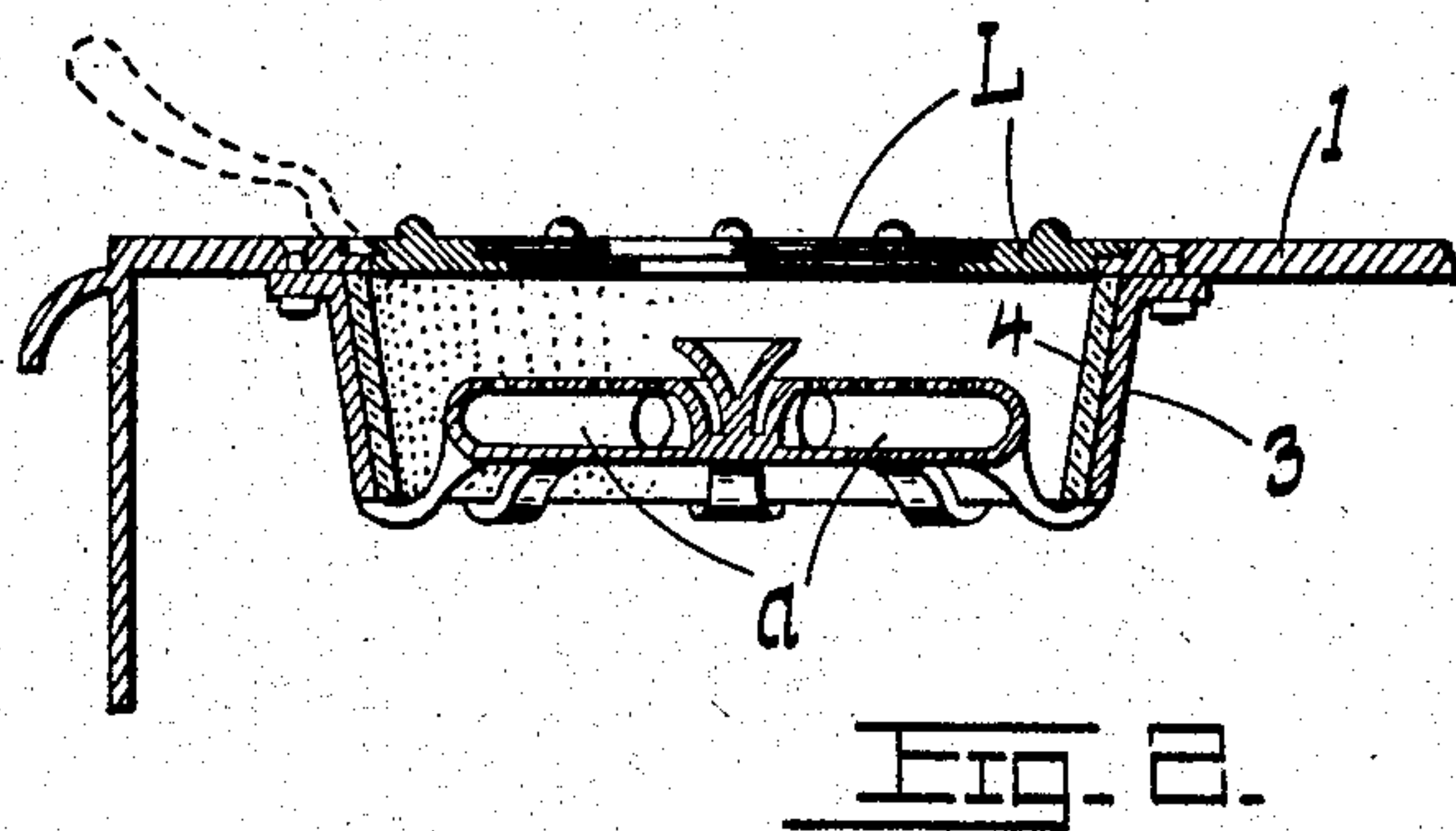
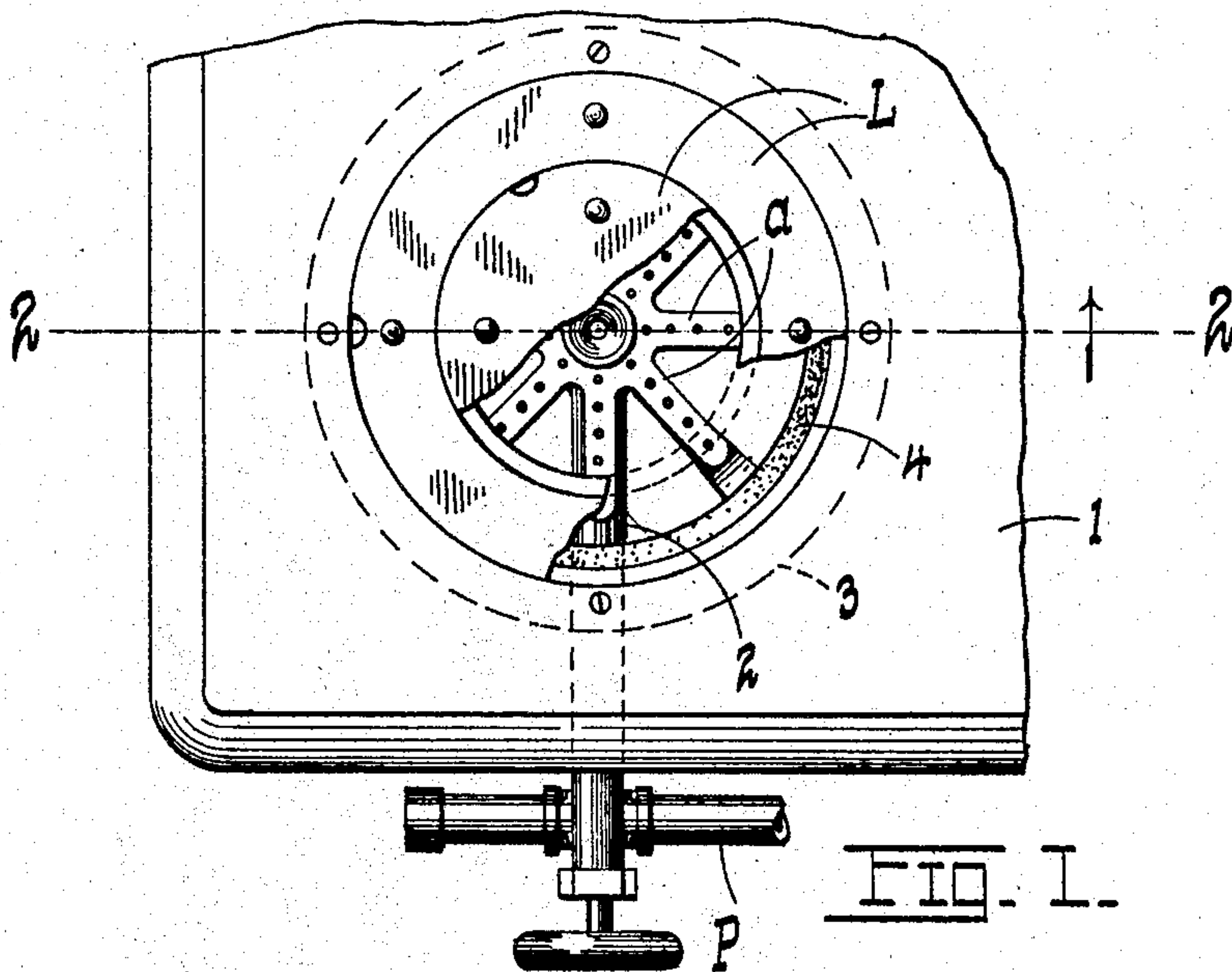
E. O. RISSE.

VAPOR BURNER.

APPLICATION FILED MAY 20, 1908.

930,691.

Patented Aug. 10, 1909.



WITNESSES:

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EMILE O. RISSE, OF ST. LOUIS, MISSOURI.

VAPOR-BURNER.

No. 930,691.

Specification of Letters Patent.

Patented Aug. 10, 1909.

Application filed May 20, 1908. Serial No. 433,823.

To all whom it may concern:

Be it known that I, EMILE O. RISSE, citizen of the United States, residing at St. Louis, State of Missouri, have invented certain new and useful Improvements in Vapor-Burners, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention has relation to improvements in vapor-burners; and it consists in the novel details of construction more fully set forth in the specification and pointed out in the claim.

In the drawings, Figure 1 is a top plan of a section of a stove-top having my invention applied thereto; and Fig. 2 is a vertical section on the line 2—2 of Fig. 1.

The present invention is specially directed to gas-stove burners and has for its object to construct a burner which will effect a material saving in fuel, one which will prevent drafts or air currents from disturbing the flame; one which permits the range to be kept clean, affording ready access to the parts around the burners; one serviceable for any domestic purpose such as heating curling irons, flat irons, and the like, and one possessing further and other advantages better apparent from a detailed description of the invention which is as follows:—

Referring to the drawings, 1 represents a flat stove-top below a suitable opening of which the burner is secured. The burner may be of the star-shape variety comprising a cluster of burner arms *a a* radiating from a common feed-pipe 2, the latter coupling up in front of the stove to a common supply-pipe P which supplies all the burners of the series. Cast with the burner is a casing or inclosing ring or wall 3 which is secured to the stove-top 1, the height or depth of the casing wall being sufficient to permit the top of the burner to be de-

pressed a suitable distance below the plane of the top, whereby, the flame is protected against drafts, the casing in addition serving to prevent the flame from spreading beyond the range of the vessel or other object placed over the flame. To prevent overheating of the parts immediately surrounding the flame, I line the casing walls with asbestos 4 or equivalent heat insulating material such as mineral wool.

The opening formed in the top above the burner may be decreased or enlarged at pleasure or wholly covered by suitable rings or lids L as well understood. These form with the top a plane surface which resembles that of an ordinary stove-top which may be readily cleaned and polished as it is all exposed, the burner in no wise interfering.

Such features of construction as may be shown but to which no reference is made are well known and require no description herein.

Having described my invention, I claim, In combination with a stove-top having a plane surface and provided with an opening, a burner comprising a feed-pipe and a series of radiating burner arms spaced apart located opposite the opening and depressed below the plane of the top aforesaid, a casing cast with and encompassing the burner and secured to the under side of the stove-top around the opening, a lining of heat insulating material for the casing, and means for covering the opening along a plane continuous with the outer surface of the stove-top, substantially as set forth.

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

EMILE O. RISSE.

Witnesses:

EMIL STAREK,
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