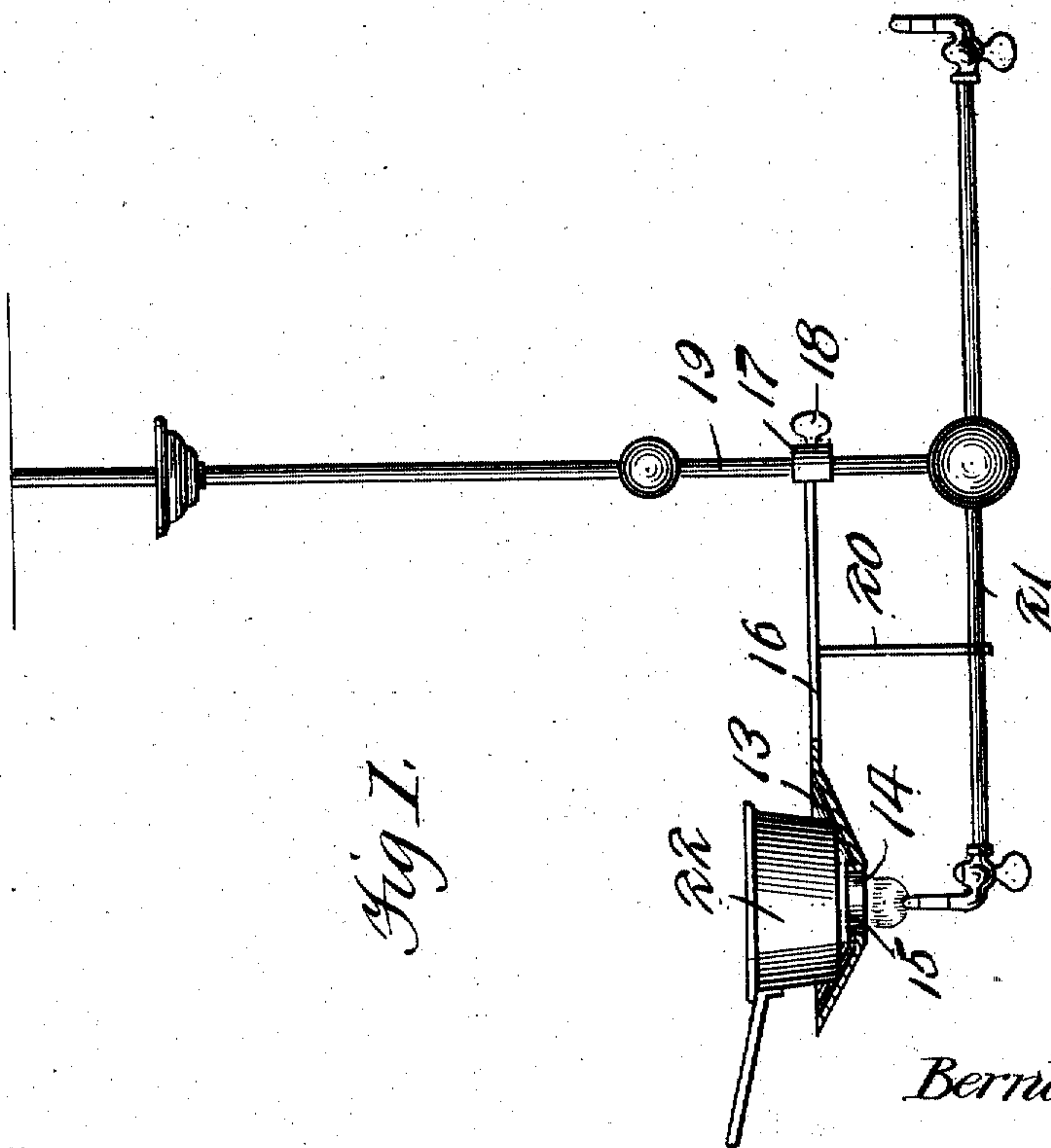
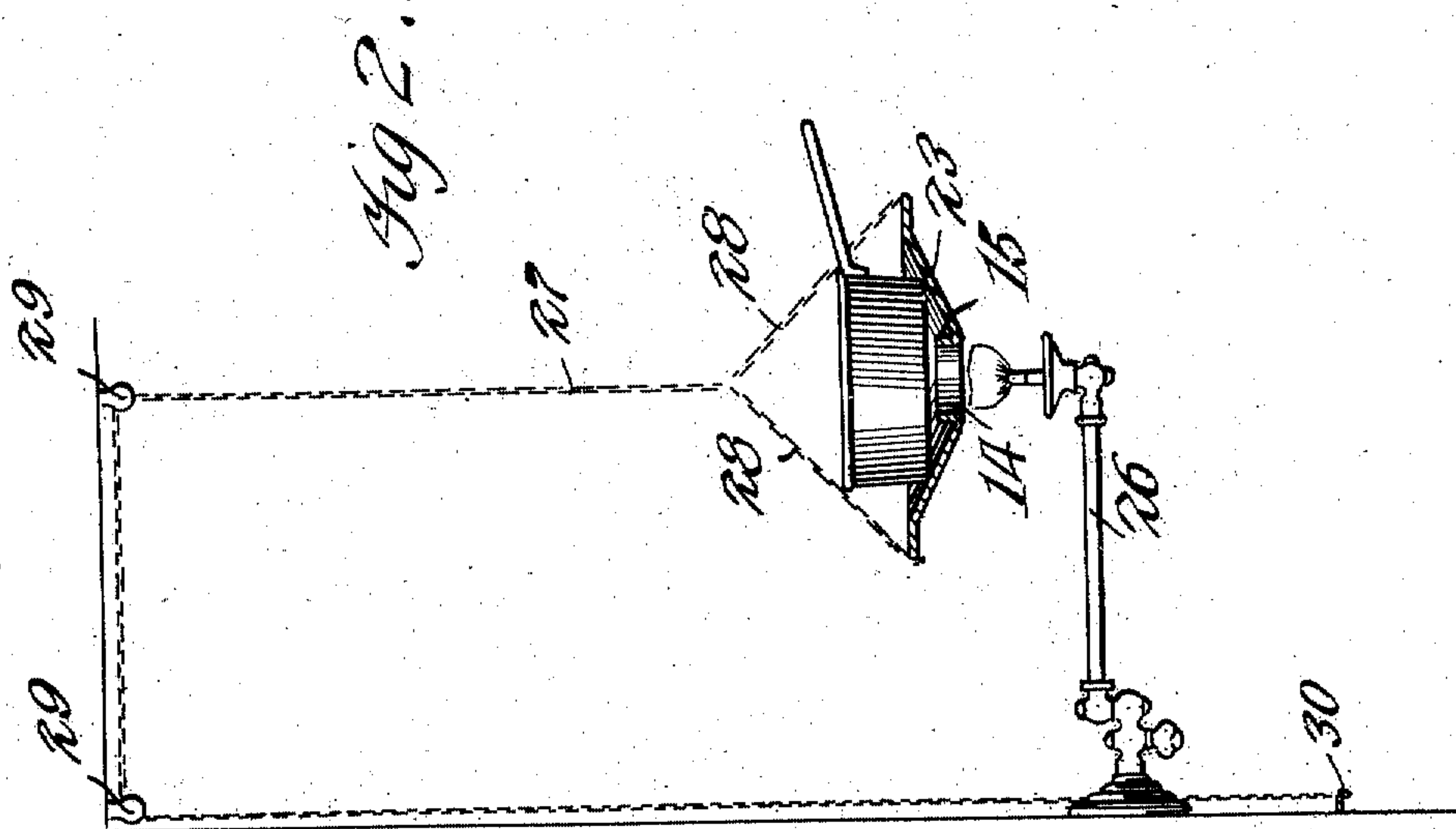


B. O. ADLER.
HEATING APPARATUS.
APPLICATION FILED FEB. 13, 1909.

985,240.

Patented Feb. 28, 1911.



Witnesses

Hugh Hott
Q. W. Gould.

Inventor

Bernard O. Adler

Victor J. Evans

Attorney

UNITED STATES PATENT OFFICE.

BERNDT O. ADLER, OF ST. PAUL, MINNESOTA.

HEATING APPARATUS.

985,240.

Specification of Letters Patent.

Patented Feb. 28, 1911.

Application filed February 13, 1909. Serial No. 477,603.

To all whom it may concern:

Be it known that I, BERNDT O. ADLER, a citizen of the United States, residing at St. Paul, in the county of Ramsey and State of Minnesota, have invented new and useful Improvements in Heating Apparatus, of which the following is a specification.

The invention relates to an improvement in heating apparatus designed primarily to utilize the heating effect from the ordinary means used to illuminate the room.

The main object of the present invention is the provision of a heating apparatus which may be conveniently supported from any suitable structure in which it is designed to utilize the heat rising from an illuminating means, such as a lamp or gas burner, as a heating medium without in any way interfering with the full power of the illuminating effect.

The invention will be described in the following specification, reference being had particularly to the accompanying drawings, in which:—

Figure 1 is an elevation, partly in section, of the improvement. Fig. 2 is a view similar to Fig. 1, showing the utensil carrier supported in a slightly different way.

In the accompanying drawings I have shown the heater as designed for use in connection with gas, in Fig. 1 the device being shown as constructed for the usual central double bracket burner and in Fig. 2 for use with the wall or single bracket burner.

In Fig. 1 the carrier 13 comprises a dish-shaped body formed with a central opening 14, the material of the body being projected above the plane of the same adjacent the opening in the form of an annular flange 15. Integral with the carrier is a rod 16, at the inner end of which is formed a sectional coupling sleeve 17 carrying a set screw 18, whereby the arm may be secured to the pendent pipe 19 of the gas bracket. A brace rod 20 depending from the arm 16 at a point about centrally of the latter is formed at its lower end to straddle the bracket pipe 21. The parts are so arranged that the flame from a burner will be directed through the opening 14, thereby heating the utensil 22 which is supported in the carrier, as shown.

In this form the flange 15 serves as an abutment to prevent material which boils over from the utensil finding its way into contact with the flame.

In Fig. 2 the carrier 23 is practically identical with that described in connection with Fig. 1, being dish-shaped and having the central opening 14 surrounded by an upwardly extending flange 15. This form, however, is designed for use in connection with the single wall bracket burner, as 26, and is, therefore, suspended by a chain 27 which at its lower end is connected to branch chains 28 which are secured to diametrically opposed points of the carrier, the chains 27 passing over suitable supports, as 29, and having any one of its links adapted to engage a hook 30 secured in the wall of the room, whereby the carrier may be suspended at any desired height relative to the flame from the burner.

The device as a whole provides a simple and effective means for utilizing otherwise useless heat and products of combustion from the illuminating means, permitting the use of such heat for cooking or power generating purposes, and this without in any way interfering with the full and usual power of the heating medium as an illuminant.

Having thus described the invention what is claimed as new, is:—

A heating device comprising a carrier formed with a central opening, the material of the opening being bent vertically upward to provide an annular flange about the opening, the material of the carrier throughout the area thereof beyond the opening being inclined upwardly in all directions to provide an inclined base terminating in a free edge disposed above the free edge of the annular flange, said inclined base of the carrier extending on straight lines of inclination from the opening to the free edge and being of such length as compared with the height of the flange that the engagement of a utensil with the upper surface of said base on a line equal to or above one-half its length will space the bottom of the utensil from the free upper edge of the flange, whereby the bottom of the utensil is sub-

jected to the direct action of the head and a considerable portion of the base wall of the carrier projects upwardly and outwardly beyond the line of contact between the utensils and carrier to receive the overflow from the utensil, and means for adjustably supporting the carrier from the fixture.

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

BERNDT O. ADLER.

Witnesses:

E. J. BISHOP,
S. A. PONTIAN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
