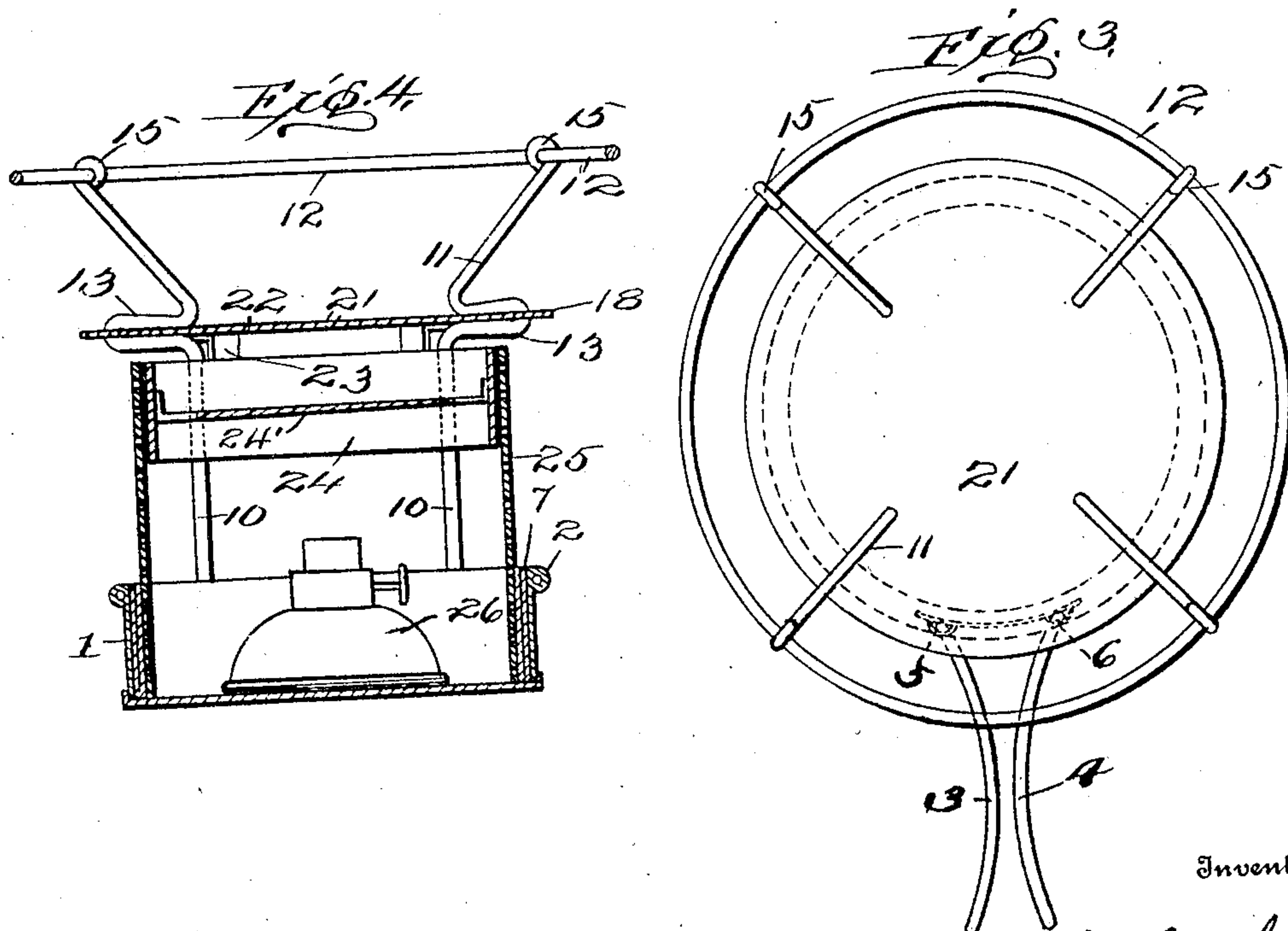
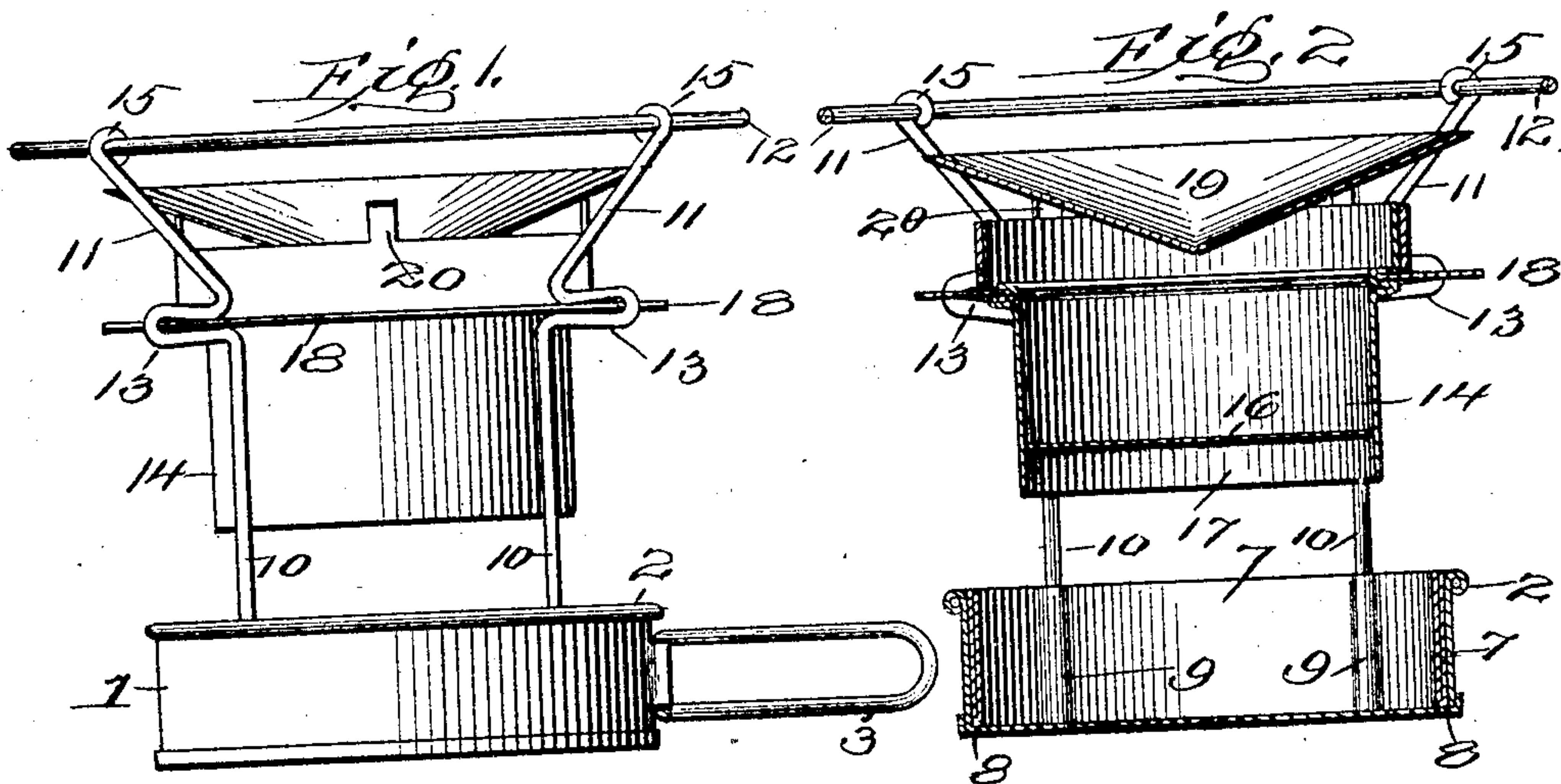


No. 878,296.

PATENTED FEB. 4, 1908.

E. L. LOVELESS.  
VAPORIZER FOR MEDICAMENTS.

APPLICATION FILED JULY 23, 1906.



Witnesses

J. M. Fowler Jr.  
A. L. Kitchen

Inventor

E. L. Loveless

By

Mason, Fenwick & Lawrence  
Attorneys



# UNITED STATES PATENT OFFICE.

EVA L. LOVELESS, OF CORNING, NEW YORK.

## VAPORIZER FOR MEDICAMENTS.

No. 878,296.

Specification of Letters Patent.

Patented Feb. 4, 1908.

Application filed July 23, 1906. Serial No. 327,456.

*To all whom it may concern:*

Be it known that I, EVA L. LOVELESS, a citizen of the United States, residing at Corning, in the county of Steuben and State of New York, have invented certain new and useful Improvements in Vaporizers for Medicaments; 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.

This invention relates to improvements in medical lamps, and particularly those kinds that are especially adapted to use in giving dry and vapor baths.

The invention comprises the production of a lamp, means for holding the lamp in position, a liquid containing receptacle positioned above the lamp, and means for preventing bed clothing and the like from contacting with the liquid or the lamp.

The invention further comprises the production of a framework adapted to contain a suitable lamp, supporting means formed in said framework for accommodating a shield for permitting the use of heated air, or the accommodating of means for the use of vapor, and means secured to the top of the frame for holding bed covers and the like away from the lamp.

The invention further comprises the production of a framework, a perforated shield surrounding part of said framework, a lamp positioned within said shield and means supported by said framework for permitting the use of heated air or vapor as may be desired.

The object in view is the production of a lamp that may be used under the covers of a bed for producing either heated air or vapor.

Another object in view is the production of a medical lamp provided with a lamp receiving receptacle that is adapted to be carried from place to place, a framework removably mounted in said lamp receiving receptacle, means for producing heated air or vapor as may be desired and means for holding the covering out of contact with the flame of said lamp.

In the drawings:—Figure 1 is a side elevation of the preferred form of my invention. Fig. 2 is a vertical section through the structure shown in Fig. 1. Fig. 3 is a top plan view of the structure shown in Fig. 1 with the device for permitting the use of heated air positioned therein. Fig. 4 is a vertical section through a slightly modified form of my

invention showing means for permitting the use of heated air and a shield surrounding the lamp for protecting the bed clothes.

In the treatment of certain diseases it has been found of great advantage to give hot baths, and especially vapor baths to a patient, but oftentimes when such procedure would be desirable, it is considered dangerous to remove the patient from the bed. A number of devices have been used to produce a steam or vapor bath for the patient without removing the bed clothing or the patient from the bed with more or less success. It has been found desirable to provide a device that may produce dry heated air as well as a device for producing steam, and it is to this class of devices for producing either steam or dry air as may be desired that the present invention is directed. In the present invention an alcohol lamp is preferably used so as to give off the dry heat that is peculiar to the use of such a lamp, and is especially adapted for the use in treating chills and like diseases.

Referring to the drawings, I provide a suitable receptacle, as 1, of any convenient material, preferably heavy tin, and preferably have the same made with a reinforcing bead 2 around the top for stiffening the same. A lamp 26, preferably using alcohol, is placed within the receptacle 1 for producing either dry heated air or vapor, as will be more clearly hereafter described. Secured to the receptacle 1 are a pair of handles 3 and 4 that are pivotally secured to the receptacle 1 at 5 and 6, and are bent on the arc of a circle so as to snugly fit the periphery of the receptacle 1 when folded against the same. Within the receptacle 1 is located a band or ring 7, preferably made from a single piece of sheet metal and bent upon itself as 8 so as to form a ring of double thickness. At suitable places around the ring 7 are pressed-out portions, as 9 for accommodating the legs 10 of a framework 11. The framework 11 is composed preferably of a ring 12 and legs or uprights 10 of any desirable number. Each of the legs 10 at a convenient point is bent outward and then back inward again upon itself so as to form an offset 13 for accommodating a liquid retaining receptacle 14. From the shouldered portion 13, the legs 10 extend upward at an angle and are secured to the ring 12 at 15. By thus extending the upper portion of the legs 10 at an angle, the ring 12 may



be made comparatively large in diameter so that when the device is placed under the coverings of a bed, the same will be held a considerable distance from the flame of the lamp contained in the receptacle. The liquid containing receptacle 14 is preferably made with a bottom 16 spaced a short distance from the bottom of the sides of the receptacle so as to produce an inverted receptacle or housing 17 into which the flame of the lamp is projected, and which has a tendency to hold the heat therefrom beneath the bottom 16 of the receptacle 14, so as to use as many of the heat units thereof as possible. Formed integral with or secured to the receptacle 14 near the top thereof is a flange 18 which is adapted to fit into the shouldered portion 13 of the legs 10, and consequently supports the receptacle 14 in place. Secured above the receptacle 14 is a deflector or shield 19 supported by suitable braces 20 formed in connection with the upper edge of the liquid containing receptacle 14. The shield 19 is preferably made conical so as to direct the steam or vapor off at approximately a right angle to the perpendicular, and thus more readily accomplish the object for which the same is used.

In certain instances dry heat is preferred to the use of vapor, and in such cases I remove the receptacle 14 from the frame 11 and substitute therefor a deflector 21 which is formed preferably with a top 22 that extends outward in the same manner as the flange 18 and rests in the shouldered portions 13 of the legs 10. Secured to the deflector 21 by suitable supports 23 is a band 24 that fits within the lower portion of the legs 10 having positioned therein an auxiliary deflector 24<sup>1</sup>. Fitting within the legs 10 below shouldered portion 13 is a perforated shield 25 that is adapted to fit snugly within the ring 7 after the same has been placed within the receptacle 1. As will be clearly seen in Fig. 4, this shield, together with the deflector 21, will prevent the flame from the lamp 26 from coming into contact with any of the bed clothes.

In the provision of a lamp of the class described, it has been found always desirable to provide one that may be readily changed from the use of heated air to the use of vapor, and by the particular construction or frame-

work 11 it will be evident that my improved lamp may be readily changed with a comparatively small loss of time.

Another advantage secured by the present structure is that the same may be easily and cheaply made, and also easily taken apart and packed into a small space without in any way injuring the same.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. In a vaporizer for medicaments, the combination of a base formed with an up-standing flange, a band positioned with said flange and engaging the same, a framework retained from movement by the band and supported by said base, and a lamp positioned within the framework substantially as described.

2. In a vaporizer for medicaments, the combination of a base formed with an up-standing flange, a band engaging the flange, a framework retained from movement by the band and supported by said base, and a lamp supported by said base, and a deflector supported by the frame substantially as described.

3. In a vaporizer for medicaments, the combination of a base formed with an up-standing flange, a band bearing against the flange and formed with pressed-out portions, a framework provided with upright members engaging the pressed-out portions of the band, and a lamp positioned within the framework and a deflector for said lamp supported by said frame work, substantially as described.

4. A vaporizer for medicaments comprising a base, a lamp supported thereby, uprights supported by said base, said uprights being bent intermediate their length, outward at right angles and then inward for forming an offset portion and then upward at an angle, a guard ring secured to the upper end of said uprights and a deflector supported by said offset portions of said uprights substantially as described.

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

EVA L. LOVELESS.

Witnesses:

JOHN P. HALL,

ANNA GERTRUDE GIBSON.