

W. R. JEAUVONS.
HEATER.
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1,061,079.

Patented May 6, 1913.

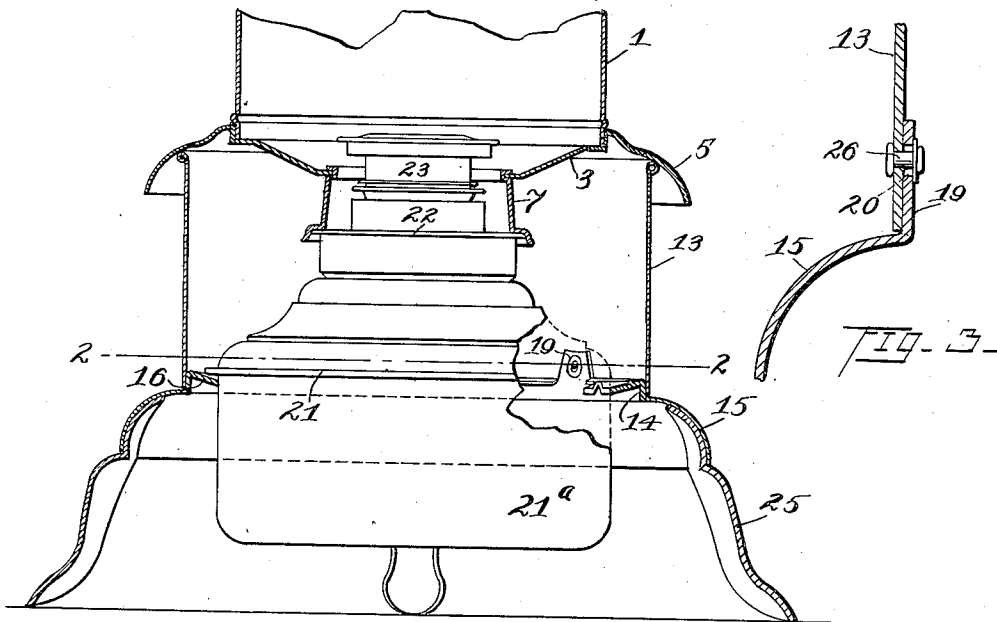


FIG. 1 -

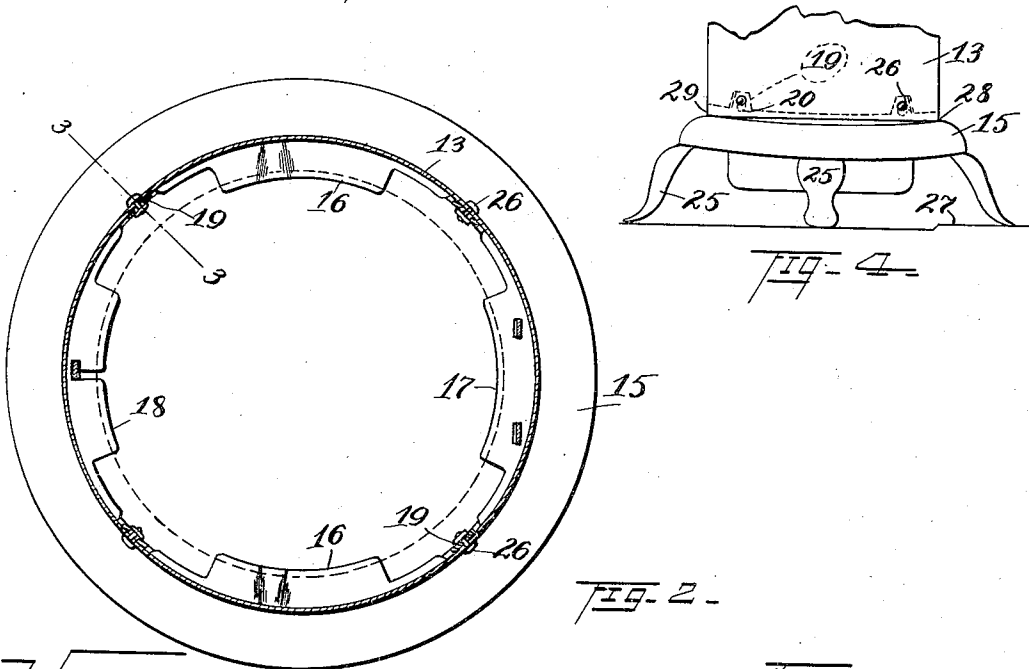


FIG. 2 -

Witnesses -

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UNITED STATES PATENT OFFICE.

WILLIAM R. JEA VONS, OF CLEVELAND, OHIO.

HEATER.

1,061,079.

Specification of Letters Patent.

Patented May 6, 1913.

Original application filed July 22, 1911, Serial No. 639,991. Divided and this application filed October 26, 1912. Serial No. 727,864.

To all whom it may concern:

Be it known that I, WILLIAM R. JEA VONS, a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented a certain new and useful Improvement in Heaters, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings.

This invention relates to oil stoves and more particularly to stoves of this class which are known to the trade as "heaters."

It is the general purpose of this invention to provide a construction whereby the legs which support the stove may be in simultaneous engagement with the floor or other supporting surface notwithstanding the size and number of the irregularities in such surface.

While the construction disclosed herein is capable of general application and is useful in connection with stoves or heaters as heretofore most commonly constructed, the invention is of particular advantage in connection with a stove wherein enameled metal is employed, the connection between the legs and the stove body, and more particularly the connection between the base ring and the body (drum base) being designed in such manner as to prevent the cracking or chipping of the enamel coating.

A further object of the invention is the provision of an efficient connection between the body or drum base of such a stove and the legs which will permit the stove to be conveniently transported without rocking or rattling of the parts.

This application is a division of my prior application filed July 22, 1911, Serial No. 639,991.

Referring to the drawings forming part hereof Figure 1 represents a vertical sectional view taken through the lower portion of a heater constructed in accordance with my invention, the burner and reservoir being shown in elevation excepting that a portion of the reservoir is broken away to disclose the means of securing together the various parts; Fig. 2 a horizontal cross sectional view corresponding to the line 2—2 of Fig. 1 and looking downwardly, the burner and reservoir being omitted; Fig. 3 a sectional detail corresponding to the line

3—3 of Fig. 2; and Fig. 4 a detail in elevation illustrating the manner in which the heater may be supported on all of its legs notwithstanding a considerable unevenness of the supporting surface.

Describing by reference characters the various parts illustrated herein, 1 indicates a cylindrical drum which may be of enameled sheet metal, resting at its bottom upon a seat provided upon the upper face of the annular cone plate 3, said cone plate being provided in the present embodiment at its periphery with a depending skirt 5 and at its inner aperture with a depending collar 7. The drum and its associated parts are supported by the drum base 13, which is also preferably of enameled metal, any suitable connection between said drum base and said drum being employed, but preferably the means disclosed and claimed in the parent application hereinbefore mentioned. The lower end of the drum base 13 rests upon what I term the ring base, the latter having a cylindrical portion 14 at its upper end adapted to sleeve within the drum base and a rounded and downwardly projecting skirt 15 below this cylindrical portion. The upper end of the cylindrical portion is provided, in the present embodiment, with a pair of integral, oppositely-arranged, inwardly-extending, segmental, flange projections 16, 16, and with a pair of oppositely-arranged, inwardly-extending, flange projections 17 and 18. The flanges 17 and 18 are arranged diametrically opposite each other with their centers about ninety degrees from the flanges 16. The ring base is also provided with a plurality of upwardly extending integral lugs 19, conveniently located between the flange projections 16, 17, and 18 and each having an elongated, vertically-extending slot 20 therein. The ring base is made of flexible or yielding sheet metal for a purpose to be described.

The ring base 15 has legs 25 suitably attached thereto and is itself connected to the drum base 13 by means of rivets 26 extending through holes in the drum base and through the elongated slots 20 in the lugs 19. These slots are not only elongated but are of greater width than their corresponding rivet holes in the drum base, whereby a certain amount of play between the ring base and the drum base is permitted, while pre-

venting the actual separation of the parts, as when the stove is lifted by means of the bail usually provided and applied to the drum.

5 As will appear by reference to Fig. 4, the ring base is made of thin, resilient metal, and the drum base 13 is yieldingly connected thereto by the slots 20 and rivets 26. By this pin-and-slot connection and the resilience of
10 the ring base, I am enabled to secure a firm footing for the stove or heater on an irregular surface without straining the parts which the legs support. By seating the stove upon the surface, the legs will generally be forced to contact with the surface
15 by the weight of the parts supported thereby, notwithstanding a considerable irregularity in the supporting surface. This action and adaptability are illustrated, in a somewhat exaggerated degree, in Fig. 4,
20 wherein one of the legs is shown as resting upon an elevation 27. This will naturally tend to lift the intermediate legs from the floor. Owing to the resilience of the ring base, these legs may be brought into
25 contact with the floor or supporting surface by the springing of the ring base downwardly between the points 28 and 29, the yielding or pin-and-slot connection between the drum base and the ring base permitting
30 the downward deflection or springing of the base even by the weight of the parts supported by the legs.

In the present embodiment I have illustrated an oil reservoir 21^a having an annular rib 21, whereby the same may be supported through the instrumentality of the
35 flanges 16, 16, and also having a burner indicated generally at 23 and a gallery 22 surrounding the same, said gallery being arranged to be engaged by the collar 7 when
40 the drum and its associated parts are lowered into operative position upon the drum base.

45 It will of course be understood that any suitable or convenient form of reservoir, burner, etc., may be employed in connection with the invention herein disclosed and claimed, as well as any suitable method for
50 supporting the same in place. Likewise it will be understood that while I have described my improvement as being particularly advantageous in connection with a stove made in part of enameled metal, it is
55 because my construction affords particular advantages in connection with such metal, and not because I intend to limit the application of the invention to the same, inasmuch as the construction herein disclosed is
60 of great value irrespective of the kind of material employed in the drum and drum base. It will, therefore, be understood that, while I have described my invention in detail and particularly pointed out the construction which my experience has indi-

cated as being most desirable, I do not confine myself to either the uses or the construction set forth, except as the same may be positively included in the claims hereto annexed or may be rendered necessary by
70 the prior state of the art.

Having thus described my invention, what I claim is:

1. In a stove, the combination of a flexible base ring, legs connected thereto, and a drum base movably connected to the base ring.

2. The combination of a stove body, legs therefor, and means flexibly connecting the said legs and body.

3. In a stove, the combination of a base ring of flexible metal, legs projecting from said ring, a drum base adapted to be seated upon said ring, and a pin-and-slot connection between said base and said ring.

4. In a stove, the combination of a flexible base ring, legs projecting from said ring, a drum base adapted to be supported by said ring, and a lost-motion connection between said base and said ring.

5. In a stove, the combination of a base ring of flexible metal, a drum base, legs secured to and depending from said ring, upwardly extending lugs carried by said ring and located adjacent to the drum base, said lugs being provided each with an aperture, and connecting devices carried by the drum base and securing the same to said lugs, said apertures being larger than said devices, whereby relative movement between the
100 drum base and ring is permitted.

6. In a stove, the combination of a base ring, a drum base, upwardly extending lugs carried by said ring and located adjacent to the inner wall of the drum base, said lugs being provided each with an aperture, and connecting devices carried by the drum base and securing the same to said lugs, said apertures being larger than said devices whereby relative movement between the
110 drum base and ring is permitted.

7. A stove comprising in combination a body portion, a flexible support, means yieldingly connecting said support and said body portion, and legs connected to said
115 support.

8. A stove comprising in combination a body portion, a flexible support, a lost-motion connection between said support and said body portion, and legs connected to
120 said support.

9. A stove comprising in combination a body portion, a support of flexible metal, a pin-and-slot connection between said support and the body portion, and legs connected to said support.

10. A stove comprising in combination a body portion, a support of flexible metal, perforated lugs carried by the support, connecting devices carried by the body portion
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of the stove and securing the same to the
lugs, the perforations in the lugs being
larger than the connecting devices whereby
relative movement between the support and
5 the stove body is permitted, and legs con-
nected to said support.

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

WILLIAM R. JEAVONS.

Witnesses:

J. B. HULL,

BRENNAN B. WEST.
