J. STEPIN.

VENTILATOR.

APPLICATION FILED JUNE 19, 1919.

1,345,514.

Patented July 6, 1920.

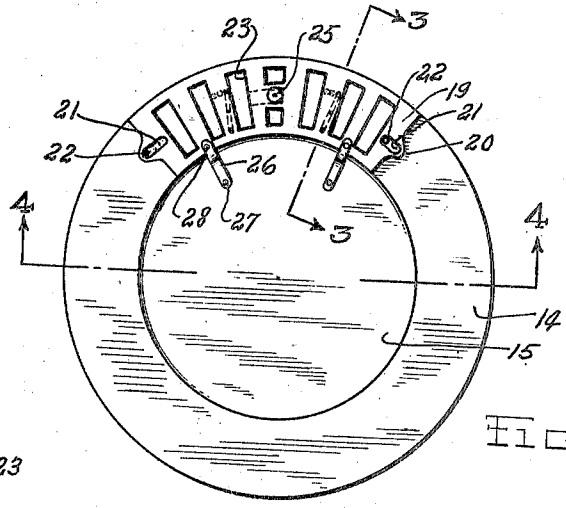


FIG. 1.

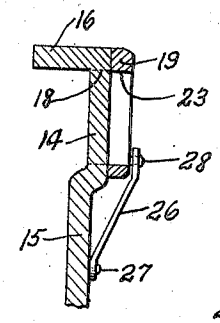


FIG. 5.

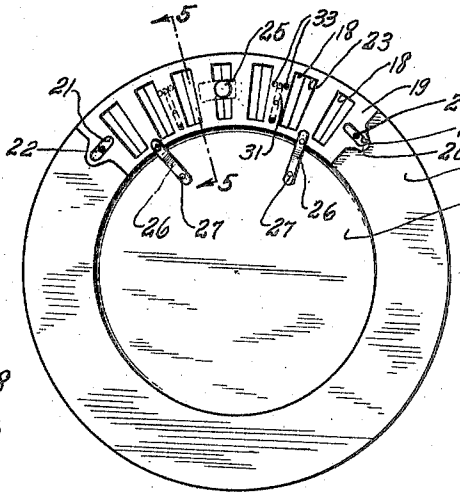


FIG. 2.

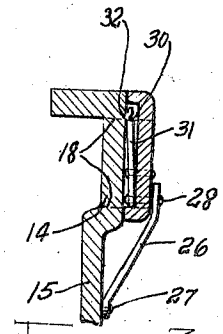


FIG. 3.

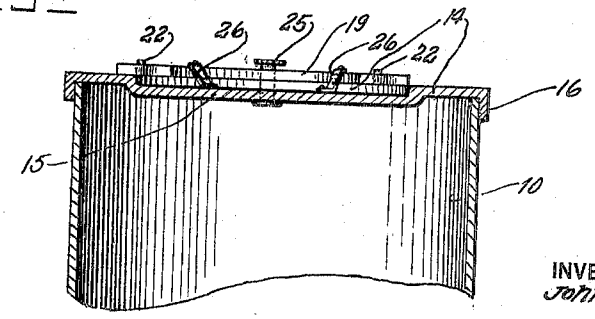


FIG. 4.

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JOHN STEPIN, OF DERBY, CONNECTICUT.

VENTILATOR.

1,345,514. Specification of Letters Patent. Patented July 6, 1920.

Application filed June 19, 1919. Serial No. 305,449.

To all whom it may concern:

Be it known that I, JOHN STEPIN, a citizen of Poland, residing at Derby, county of New Haven, and State of Connecticut, have invented certain new and useful Improvements in Ventilators, of which the following is a specification.

This invention relates to improvements in ventilators for vessel covers, such as are used for boiling liquids, and has as its special purpose the provision of means whereby the vapor rising from the contents of the vessel may be permitted or prevented from passing into the atmosphere.

A further object is to provide a ventilator for the cover in which the area of the openings may be adjusted to any desired degree, and

Finally to provide means whereby the movable portion of the ventilator may be resiliently secured in an adjusted position.

These and other like objects are attained by the novel construction and combination of parts hereinafter described and shown in the accompanying drawings, forming a material part of this disclosure, and in which—

Figure 1 is a top plan view showing a ventilator made in accordance with the invention.

Fig. 2 is a similar view of the same, parts being shown in another position.

Fig. 3 is an enlarged fragmentary transverse sectional view taken on line 3—3 of Fig. 1.

Fig. 4 is a fragmentary vertical sectional view taken on line 4—4 of Fig. 1, and

Fig. 5 is a transverse sectional view taken on line 5—5 of Fig. 2.

Referring to the drawings, the numeral 10 indicates conventionally the upper portion of a cylindrical vessel, provided with a cover comprised of a raised marginal surface 14, and having a depressed central portion 15, the cover being secured in position by the downwardly flanged rim or edge 16, suited to make contact with the top of the vessel 10.

Formed at equally spaced intervals through a segmental portion of the raised marginal edge 14 of the cover are a plurality of radially disposed openings 18, and to that portion of the cover through which the openings are formed is secured an arcuate sector shaped shutter plate 19, containing in its end extensions 20, elongated slots 21, through which extend pins 22, set in the coverplate element 14.

Formed through the shutter plate 19 are a plurality of radial openings 23, coincident with the openings 18 formed in the cover, and which are registerable therewith by operating an extending actuating knob 25 set rigidly in the center of the shutter plate. In order to hold the shutter plate in engagement with the cover a pair of links 26 are pivoted by pins 27 to the central portion 15 of the cover plate, other pins 28 securing the outer ends of the links 26 to the shutter plate, the links being so arranged that the shutter plate may slide limitedly with respect to the cover plate in an obvious manner.

Formed in the lower side of the shutter plate 19 are recesses 30, and secured in the bottoms of the recesses are springs 31, the detent ends 32 of which are engageable with corresponding depressions 33, formed in the upper surface of the cover plate 14 so as to hold the shutter plate in adjustment, at the extreme limits of its travel or central therewith, as shown in Fig. 2, while in Fig. 1 the openings in both cover plate and shutter plate are indicated as being in registration.

From the foregoing it will be seen that a cover has been disclosed with which is combined ventilators through which vapors may be allowed to rise if desired or the openings through the cover may be tightly closed, thereby preventing vapors from rising.

In operation, when it is desired to use the ventilator, the knob 25 is operated manually so as to slide the shutter plate in the direction desired, to close or open the respective openings formed therethrough.

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

In a ventilator of the character described, a circular cover plate having a raised marginal border and a flange extended therefrom adapted to engage with the upper portion of a vessel, said cover plate having a plurality of radial openings formed therein, a shutter plate engageable with said cover plate and having a plurality of radial openings coincident with the openings in said cover plate, pivoted links for holding the

cover and shutter plates in engagement, pins on said cover plate entering elongated slots in said shutter plates, an actuating knob on said shutter plate for actuating the same, said shutter plate recessed in its lower side, springs secured in the bottoms of the recesses of said shutter plate, said cover plate recessed in its upper face for the reception of the links for holding the shutter plate in its adjusted positions, substantially as described.

In testimony whereof I have affixed my signature.

JOHN STEPIN.