S. BROWN.

WATER VAPORIZER.

APPLICATION FILED DEC. 27, 1921.

BEST AVAILABLE COPY

1,431,719. Patented Oct. 10, 1922.

Fig. 1

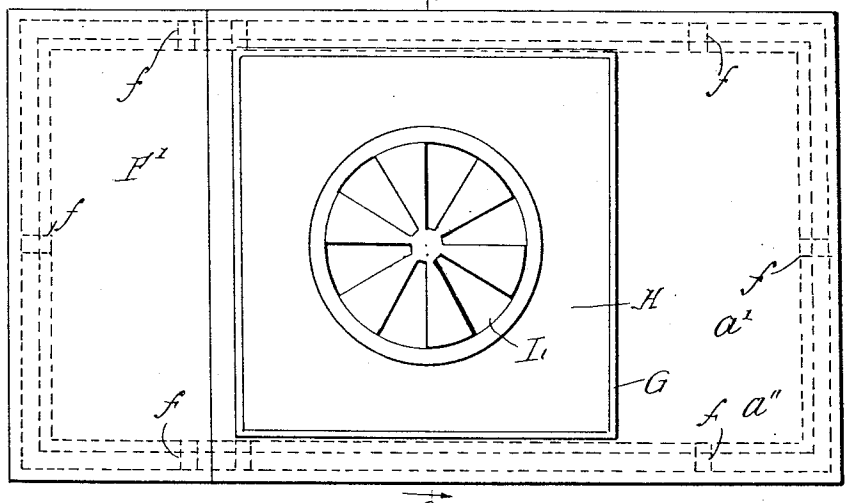
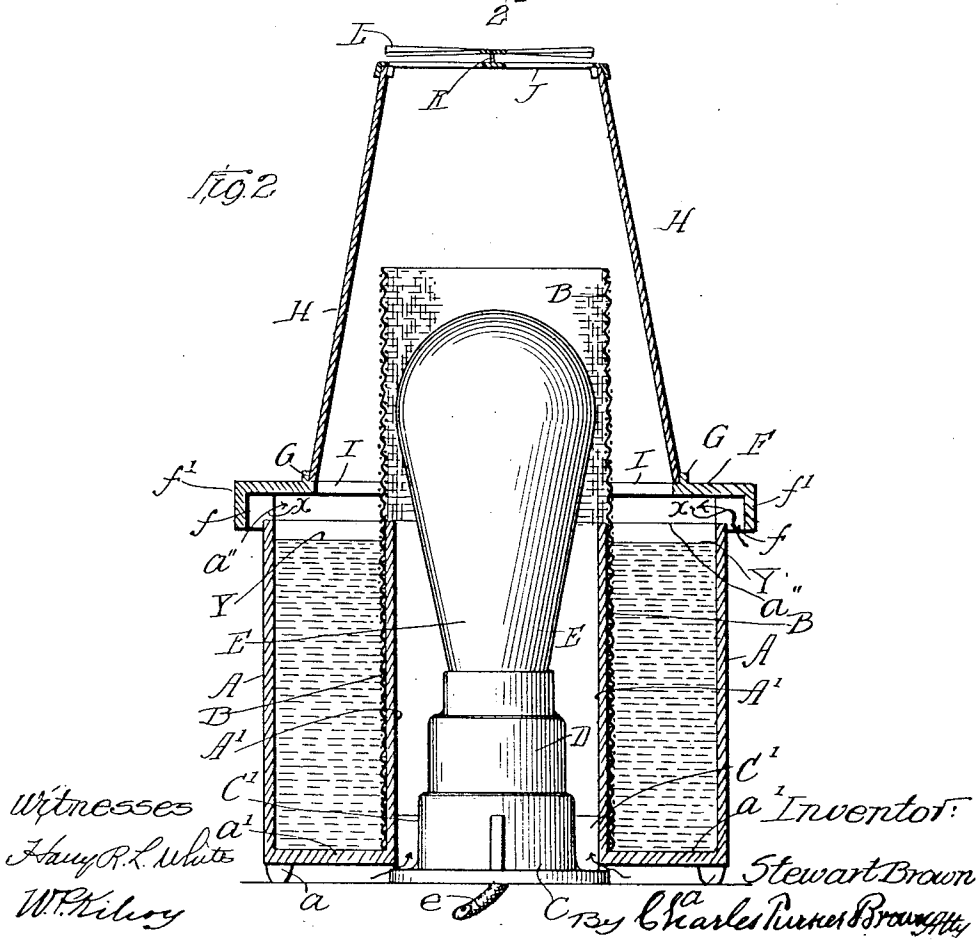


Fig. 2



Witnesses

Harry R. L. White

W. P. Kilroy

Inventor:

Stewart Brown

By Charles Tucker Brown Atty

BEST AVAILABLE COPY

Patented Oct. 10, 1922. 1,431,719

UNITED STATES PATENT OFFICE.

STEWART BROWN, OF CHICAGO, ILLINOIS.

WATER VAPORIZER.

Application filed December 27, 1921. Serial No, 525,241.

To all whom it may concern:

Be it known that I, STEWART BROWN, a citizen of the United States, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in a Water Vaporizer, of which the following is a specification, reference being had to the drawing accompanying and forming a part hereof.

This invention relates to a device for humidizing cigar cases.

Among the objects of the invention is to obtain a device of good appearance, which when placed in a cigar case will vaporize water and discharge the vapor obtained into said case, so as to cause said air to be sufficiently humid to properly moisten cigars in said case, and maintain them in moistened condition. An additional object is to obtain a vaporizer which will expose to view on casual observation thereof, that the same is in operation. An additional object is to obtain a vaporizer whereby the quantity of water vaporized and discharged in a cigar case may be easily determined, for a given time. An additional object is to obtain a vaporizer which is economical in construction, easily cared for, and not liable to get out of order or to be broken.

In the drawing referred to Fig. 1 is a top plan view of a water vaporizer embodying the invention, and

Fig. 2 is a vertical section thereof on line 2—2 of Fig. 1, viewed as indicated by arrows.

A reference character applied to designate a given part indicates said part throughout the several figures of the drawing, wherever the same appears.

A represents a water receptacle which is provided with legs *a*, *a*, said legs being designed to raise the bottom *a'*, Fig. 2, above the floor on which the receptacle is placed. A′ represents a cylindrical wall extending from floor *a'* to substantially the plane of the upper edge *a''* of said receptacle. Cylindrical wall A′ is not provided with a bottom, or top, and presents a passage way through the water receptacle. B represents a wick which fits around the circular wall A′, and extends from the bottom thereof to above said wall. C represents a base on which the electric lamp holder D is mounted. C′, C′, represent lugs on said base to position it in cylinder A′, so as to permit a flow of air between said base and said cylinder. E represents an electric lamp in holder D. *e*, represents the in-going and out-going conductors to lamp E. F, F′, represent a two-part cover to water receptacle A. Cover F, F′, is provided, on the under side thereof, with lugs *f*, *f*, which rest on the upper edge of water receptacle A, and said cover is also provided with a rim *f'*, which extends downward to, or a slight distance below, the upper edge *a''* of water receptacle A. It will be observed that by the construction of lugs *f*, *f*, and rim *f'*, a passage way for the flow of air between the walls of the water receptacle and the rim of the cover is obtained, as is indicated by the arrows X, X, Fig. 2; while, at the same time, the contents of the device are not viewable. G represents a flange on the upper face of part F of the cover and H represents a shade of translucent material, preferably tinted or colored glass, which fits on said part F of the cover, and is held in place by said flange G. I, I, represents an aperture in part F of the cover. The wick B hereinbefore referred to, extends through said aperture I, and a considerable distance above it, into shade H. Shade H is open at its upper end, and J represents a cross bar at said upper end, on which pivot K is mounted; and L represents a fan which is rotatably mounted on pivot K.

To operate the vaporizer part F′ of the cover F, F′, is removed from the water receptacle A, and water is poured into said receptacle, say to the level indicated by reference character Y, in Fig. 2. Said part F′ is then replaced on the receptacle and lamp E lighted. By the heat generated by said lamp, an upward flow of heated air is obtained in cylinder A′, and between said lamp and that part of wick B which extends above the upper edge of said cylinder A′. A flow of air is also produced into the shade H, between wick B and said shade, said air flowing between the upper edge of water receptacle A and cover F, F′, as indicated by arrows X, X, and over the water in the receptacle. Water being contained in wick B, by capillary attraction from the water in receptacle A, and said wick being warmed by said lamp, said water is vaporized, and along with the heated air flowing into said shade H, is discharged therefrom at the upper end thereof. Fan L on the upper end of pivot K, as described, is rapidly rotated to give occular evidence of said flow from said

BEST AVAILABLE COP'

shade. Said fan L performs no function in the operation of the device, other than to give evidence thereof, as stated. The quantity of water vaporized from water receptacle A in a given time is varied by a variation in size of lamp E, and I have found, in practice, from one half pint to a pint of water, as desired, may be vaporized in a given time by using lamps of varying sizes. An ordinary 110 volt lamp E, may be used, and the in-flowing and out-flowing conductors may be attached in the ordinary way to a lamp socket. In the operation of the device the shade H is illumined by the lamp E.

I claim:

1. In a vaporizer, a water receptacle provided with a vertical passage way arranged to permit the flow of air therethrough, a lamp base positioned in said passage way, and an electric lamp in said base, in combination with a wick on the wall of said passage way, said wick extending from said receptacle to above the upper edge of said wall, a cover to said receptacle arranged to permit the flow of air between said receptacle and cover, an aperture in said cover and a shade over said aperture.

2. In a vaporizer, a water receptacle provided with a vertical passage way arranged to permit the flow of air therethrough, a lamp base positioned in said passage way, and an electric lamp in said base, in combination with a wick on the wall of said passage way, said wick extending from said receptacle to above the upper edge of said wall, a cover to said receptacle, means to position said cover on said receptacle to permit the flow of air between said cover and receptacle, a downwardly extending rim to said cover in spaced relation to the vertical walls of said receptacle, an aperture in said cover, and a shade of translucent material over said aperture.

3. In a vaporizer, a water receptacle provided with a vertical passage way arranged to permit the flow of air therethrough, a lamp base positioned in said passage way, and an electric lamp in said base, in combination with a wick on the wall of said passage way, said wick extending from said receptacle to above the upper edge of said wall, a two-part cover to said receptacle, lugs on the under side of said cover arranged to permit the flow of air between said receptacle and cover and to position said cover on said receptacle, and an aperture in said cover and a shade over said aperture.

4. In a vaporizer, a water receptacle provided with a vertical passage way arranged to permit the flow of air therethrough, a lamp base positioned in said passage way, and an electric lamp in said base, in combination with a wick on the wall of said passage way a two-part cover to said receptacle, means to position, on said receptacle, the said cover, to permit the flow of air between said cover and said receptacle, a downwardly extending rim to said cover, in spaced relation to the vertical walls of said receptacle, an aperture in said cover, a shade of translucent material over said aperture, and a fan rotatably mounted above said shade.

STEWART BROWN.

Witnesses:
CHARLES TURNER BROWN,
BESS BROWN.