H. M. ROGERS.

HUMIDIFIER.

APPLICATION FILED MAY 31, 1919.

1,329,143. Patented Jan. 27, 1920.

Fig. 2.

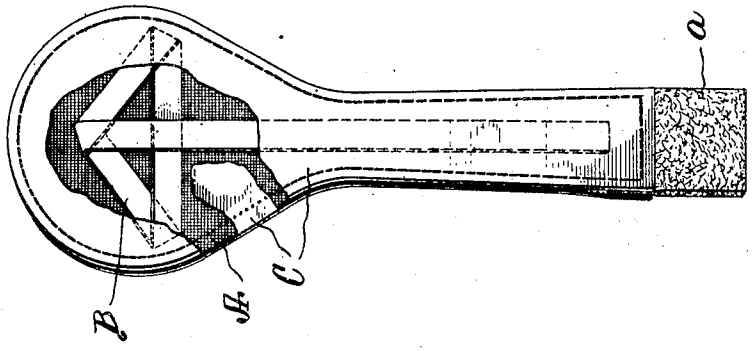
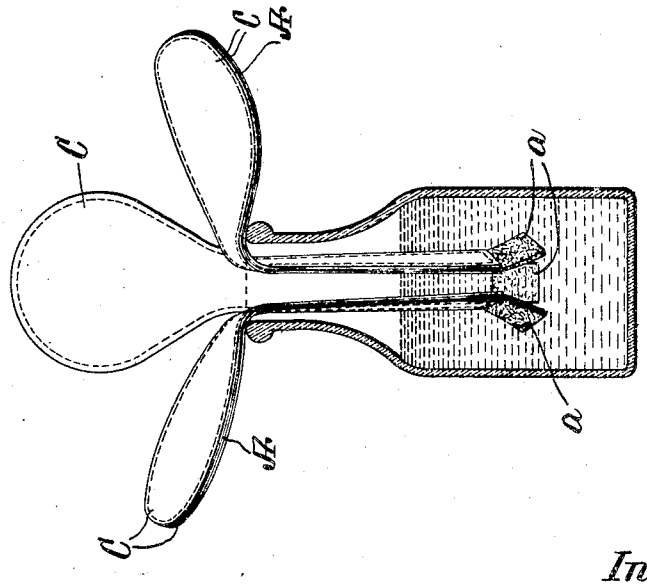


Fig. 1.



Inventor.
Harry M. Rogers.
by Wilkinson & Giusta.
Attorneys.

UNITED STATES PATENT OFFICE.

HARRY MIFFLETON ROGERS, OF PETERSBURG, VIRGINIA.

HUMIDIFIER.

1,329,143. Specification of Letters Patent. Patented Jan. 27, 1920.

Application filed May 31, 1919. Serial No. 300,898.

To all whom it may concern:

Be it known that I, HARRY MIFFLETON ROGERS, a citizen of the United States, residing at Petersburg, in the county of Dinwiddie and State of Virginia, have invented certain new and useful Improvements in Humidifiers; 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.

My invention relates to improvements in humidifiers, and especially that class of humidifiers intended to moisten the air in showcases or other inclosed receptacles where goods are stored that it is desirable to keep moist.

My invention is especially intended for use in connection with showcases or packing chests, or the like, intended to contain cigars or other forms of manufactured tobacco.

According to my invention I provide a flat pad in the general form of a lily leaf with a stem adapted to project down into a bottle, jar, or other vessel containing liquid. The pad is made of porous material, and preferably comprises a central cloth core, with layers of blotting paper attached on either side thereof so as to form an evaporating surface for the liquid which is drawn up by capillary attraction from the bottle through the stem of the pad, and is evaporated in the air at the broadened portion of the pad which protrudes from the neck of the bottle or other receptacle in which the stem of the pad is immersed.

My invention will be more fully understood after reference to the accompanying drawings, in which like parts are indicated by similar reference symbols throughout the several views, and in which:—

Figure 1 is a side elevation of the jar containing three of the pads which together resemble the form of a water-lily; and

Fig. 2 is a plan view of one of the pads in the flattened or knock-down shape, parts being broken away to show the construction.

Referring to the drawings, each pad comprises a core A of one or more layers of flexible textile fabric. This fabric is preferably absorbent cotton, rendered such by suitable treatment. This absorbent core is reinforced and stiffened by suitable flexible metal strip or strips B, so that the pad may be bent to any desired angle and remain so bent. This flexible core may be made of one or more thicknesses, as desired.

Exterior to this core on each face and inclosing same and the metal strip or strips I secure a sheet of porous material C, such as blotting paper, which absorbs the moisture from the fabric and the moisture is evaporated by the flow of air past these moistened surfaces. This air becomes cooled, and also more or less saturated with aqueous vapor, and thus air currents are created which will cause the moisture to be distributed throughout the inclosed receptacle in which the humidifier is placed.

I preferably secure the blotting paper layers exterior to the fabric layer, and the metal strip or strips by sewing, but the same may be riveted or secured in any other manner.

In order to facilitate the absorption, the absorbent fabric A preferably projects down from the lower end of the stem, as shown at *a*. One or more, or any desired number, of these pads may be placed in the receptacle, but for ordinary showcases three will suffice, and these when placed in a jar or bottle and bent over the top of the neck of the jar or bottle will present the appearance of a water-lily.

In order to produce an artistic effect, the pads may be made of green, blue, red, or mottled, or of other color or colors.

The pads may be made flat or superposed one from another for convenience in shipment, and when put in the jar or bottle for use they may be bent over to any desired tilt, but the pad should preferably not be bent below the horizontal position, for otherwise they would cause a siphoning effect. Moreover, it is preferable to have the pads at an acute angle with the vertical to prevent the accumulation of dust on the same which will impair its efficiency as a humidifier.

While I have shown the pads as substantially spoon-shaped in plan, they may be made of other forms if desired, and I do not mean to limit the invention to any particular form, nor do I mean to limit the invention to any particular porous fabric, or to the blotting paper sheath, since any suitable porous material may be substituted either

for the fabric core or for the blotting paper sheath.

Having thus described my invention what I claim and desire to secure by Letters Patent of the United States is:—

1. A pad for use in humidifiers having a head providing an enlarged evaporating surface, and a comparatively narrow stem, and comprising layers of flexible absorbent material, with a flexible metal inlay between said layers reinforcing same, substantially as described.

2. A pad for use in humidifiers having a head providing an enlarged evaporating surface, and a comparatively narrow stem, and comprising a layer of absorbent textile fabric, and a flexible metal reinforce for same, substantially as described.

HARRY MIFFLETON ROGERS.