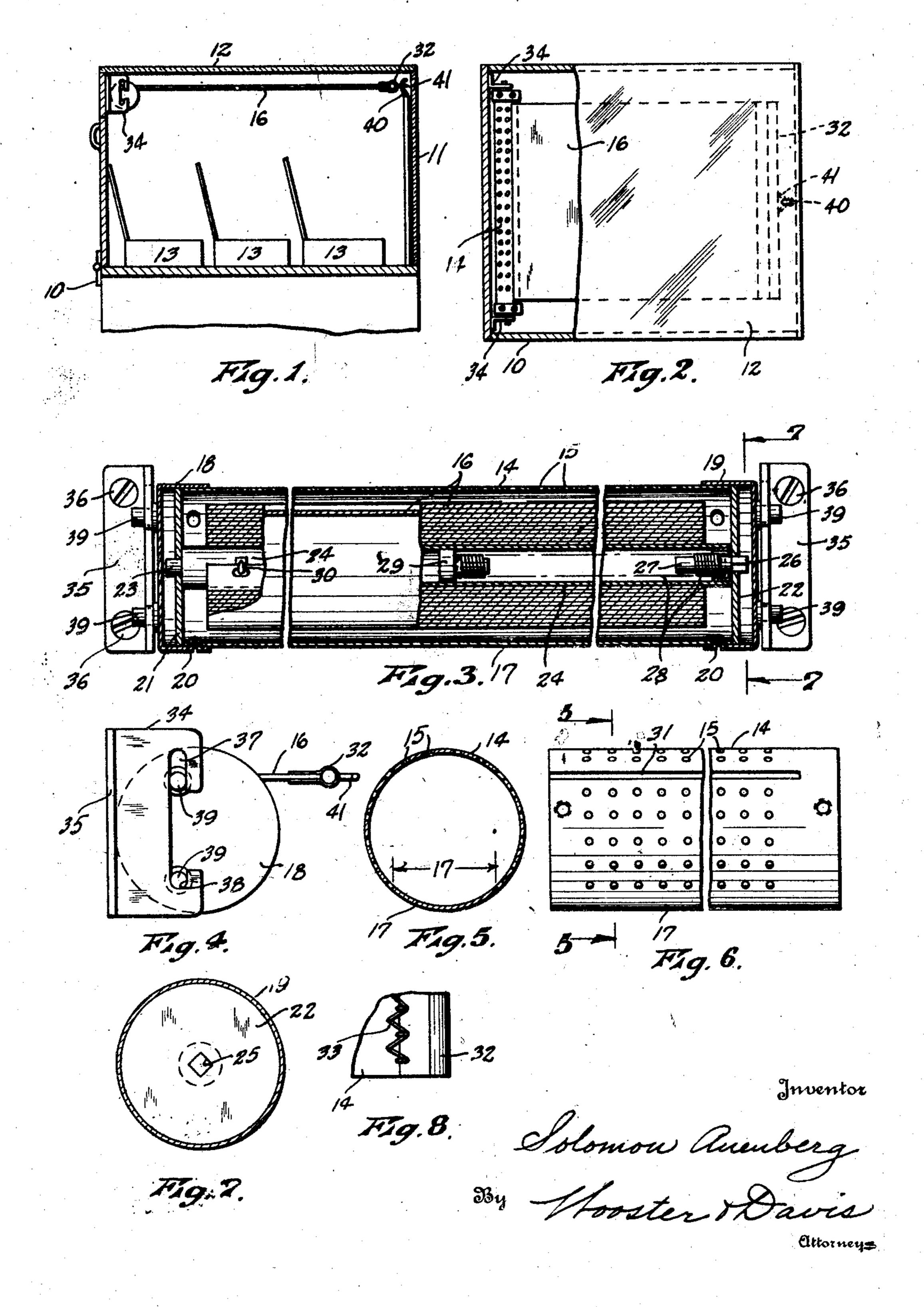
HUMIDIFIER

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UNITED STATES PATENT OFFICE

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HUMIDIFIER

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tomer, but will effectively moisten the air in the case, and at night may be extended to provide a greater amount of moisture.

10 It is also an object of the invention to provide a structure and mounting therefor by which the device may be easily removed for the purposes of renewing the moisture.

With the foregoing and other objects in 15 view, I have devised the construction illustrated in the accompanying drawing forming a part of this specification. In this drawing,

20 showing of a showcase for cigars, in vertical disc or partition 21 and 22 respectively, the 70 section with my improved humidifier applied thereto.

Fig. 2 is a top plan view thereof with a part of the top wall broken away.

through the device.

Fig. 4 is an end elevation of the device showing one of the mounting brackets.

Fig. 5 is a transverse section through the 30 casing substantially on line 5—5 of Fig. 6. Fig. 6 is a side elevation of the tubular casing.

Fig. 7 is a transverse section of one of 35 ly on line 7—7 of Fig. 3, and

Fig. 8 is a detail showing a stiffening bar for the free edge of the absorbent curtain.

Referring to Figs. 1 and 2, a showcase for is preferably mounted adjacent the upper casing by again inserting the screws. the way, and when the curtain is not extended will not interfere with the proper view of the cigars.

This improved humidifier comprises a tu-50 bular casing 14 which is provided with a

This invention relates to humidifiers for large number of openings or perforations 15 cigar showcases, wall boxes and the like, and throughout the greater portion of its surface has for an object to provide an air moisten- to permit circulation of air through the casing device which may be mounted in a show- ing whereby it may become moistened by an acase out of the way where it will not interfere absorbent flexible curtain 16 which holds as with the examination of the cigars by a cus- the moisture. The lower portion of the casing, however, as indicated at 17 in Fig. 5, is not perforated but is left imperforate to provide a trough at the under side of the casing to collect moisture which might drop 60 from the absorbent curtain or sheet. It is preferred that this casing be made of metal, but, of course, it may be of any other suitable material.

The opposite ends of this tubular casing 65 are closed by cupped caps 18 and 19 which are slipped over the ends of the casing and are secured to it by any suitable means, such Fig. 1 is a somewhat diagrammatical as screws 20. Each cap carries a transverse partition 21 having a circular opening forming a bearing for the circular bearing 23 on one end of a roller 24. The disc 22, however, is provided with a non-circular opening 25, Fig. 3 is a longitudinal vertical section preferably square, to receive a similarly 75 shaped portion 26 on a stud or short shaft 27 which forms a bearing support for the other end of the roller. Mounted in the roller is a coil spring 28 secured at its inner end to the roller through a block 29, and at 80 its other end is secured to the stud or short shaft 27. As its inner end is secured to the roller through the block 29 this spring when the caps at the end of the casing substantial- wound will tend to rotate the roller in one direction to wind up the curtain or sheet 85 16, the inner end of this curtain being secured to the roller by any suitable means, such as a series of hooks 30. It will be apparent that cigars is shown somewhat diagrammatically by removing the securing screws 20 for the 40 at 10 and has the usual front wall 11 and cap 19 this cap may be rotated, and through 90 top wall 12 of glass to permit easy examithe partition 22 and short shaft 27 will wind nation of cigars by a customer, cigar boxes the spring 28 to give it the desired tension, being shown at 13. My improved humidifier after which the cap may be secured to the

45 rear corner of this case where it is out of The casing has a longitudinal slot 31 95 through which the curtain extends, and this slot runs out one end of the casing, as shown in Fig. 6, preferably the left hand end which is closed by the cap 18. By removing this cap, therefore, the roller with its curtain may be 100

slid longitudinally from the casing and it provides simple means for assembling the curtain in the casing. The free edge of the curtain is stiffened and held flat by a metal bar 32 which is preferably of sheet metal bent to substantially U-shaped to embrace the opposite sides of the free edge, and it is secured to the curtain by any suitable means, sorbent curtain secured to the roller, means such as stitching 33. This bar strengthens for rotating the roller to wind the curtain and holds the free edge of the curtain flat and thereon, and means for holding the curtain 75 prevents its being drawn through the slot extended from the casing. 31 into the casing when the curtain is wound 2. A humidifier of the class described comon the roller.

15 ed so that they are easily removable for mounting the casing, a spring operated roll-80 ture which has been evaporated. I have devised a simple and effective means for doing this. These supports comprise a pair of brackets 34 having feet 35 at substantially right angles to the body of the bracket provided with openings for securing screws 36. Each bracket is provided in its front wall with a pair of opposed and vertically spaced 25 notches 37 and 38. Extending outwardly from each of the caps 18 and 19 is a pair of spaced lugs or studs 39 which are so spaced so as to be adapted to be inserted in the notches 37 and 38. The upper notch 37 is of 30 greater depth than the lower notch 36 and is of sufficient depth so that the upper stud 39 may move into the notch sufficiently to permit the lower stud to be free from its notch. Therefore, in removing the device 35 from its supports all that is necessary is to lift it upwardly to free the lower stud 39 from its notch, and then turn the device counterclockwise as viewed in Fig. 4, to carry the lower lug 39 outwardly, when the whole de-40 vice may be dropped to remove the upper lugs from the notches 37. The curtain may then be moistened either by placing the device in a suitable container of water, or it may be held under a faucet, and is easily in-45 serted back in the brackets by reversing the operation just described.

During the day time the curtain is wound on the roller within the casing, but it moistens the air in the show-case because the air will circulate through the openings in the casing and take up moisture from the curtain. In this position the curtain is out of the way where it does not interfere with the inspection of the cigars. In order to provide a 55 greater amount of moisture to the air the curtain is unwound and extended at night as shown in Figs. 1 and 2, and may be held in this position by any suitable means, such as a hook 40 at the forward end of the showno case over which a ring 41 on the stiffening bar 32 may be engaged. It will be obvious that when in this position a large surface of the moistened curtain is exposed to the air 65 to this air.

Having thus set forth the nature of my invention, what I claim is:

1. A humidifier for cigar showcases and the like comprising a perforated casing having a longitudinal slot, means for removably 70 supporting the casing in the case or the like, a roller mounted in the casing, a flexible ab-

prising a perforated tubular casing having The casing and the roller should be mount- a longitudinal slot, means for removably moistening the curtain to supply the mois- er in the casing, a flexible absorbent curtain connected to the roller and passing out through the slot, and means to hold the curtain extended.

3. In a humidifier, a tubular casing having 35 a longitudinal slot, a roller mounted in the casing, a flexible absorbent curtain extending through the slot, pairs of spaced studs projecting from the ends of the casing, and supporting brackets having spaced opposed 90 notches to receive said studs, one of said notches being of sufficient depth to permit the stud therein to move sufficiently to release the other stud from its notch.

4. In a device of the character described, a 95 perforated tubular casing, a flexible absorbent curtain in said casing, a pair of spaced lugs extending from each end of the casing, and a pair of brackets each having opposed notches to receive said lugs, one notch being 100 of sufficient depth to allow its lug to move inwardly sufficiently to clear the other lug from its notch.

5. In a humidifier, a tubular perforated casing, caps secured to and closing the ends 105 of the casing, a roller mounted in the casing, a pin forming a bearing for one end of the roller and secured to the adjacent cap, a spring secured at one end to the roller and at its other end to said pin so that rotation 110 of the cap will wind the spring, and a flexible absorbent curtain connected to said roller.

6. A humidifier comprising a perforated tubular casing having a longitudinal slot, a cap closing one end of the casing, a roller 115 mounted in the casing, a bearing pin for one end of the roller having a non-circular end projecting into a similarly shaped opening in the cap, a coiled spring connected at one end to said pin and at the other end to the 120 roller so that turning of the cap on the casing will wind the spring, and a flexible absorbent curtain connected to the roller and extending through the slot.

7. A humidifier for cigar showcases or the 125 like comprising a perforated tubular casing having a portion on one side imperforate to form a trough for collection of moisture, said and will supply a large amount of moisture casing having a longitudinal slot, a roller mounted in the casing, a flexible absorbent 130

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sheet connected to the roller and extending through said slot, means for operating the roller to wind the sheet thereon, and brackets for removably mounting the casing in a horizontal position with the imperforate trough portion thereof at the under side.

In testimony whereof I affix my signature.

SOLOMON ANENBERG.

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