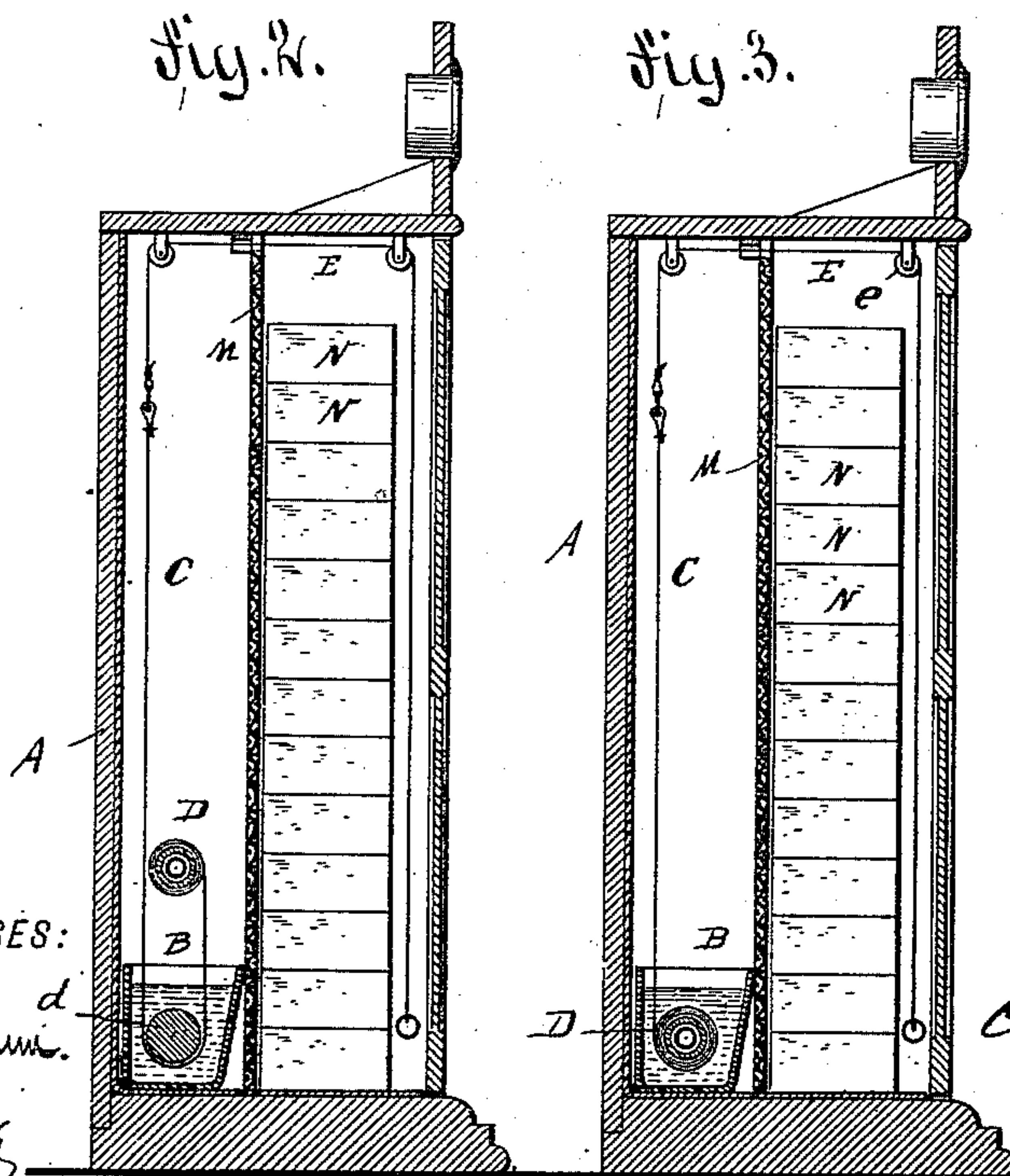
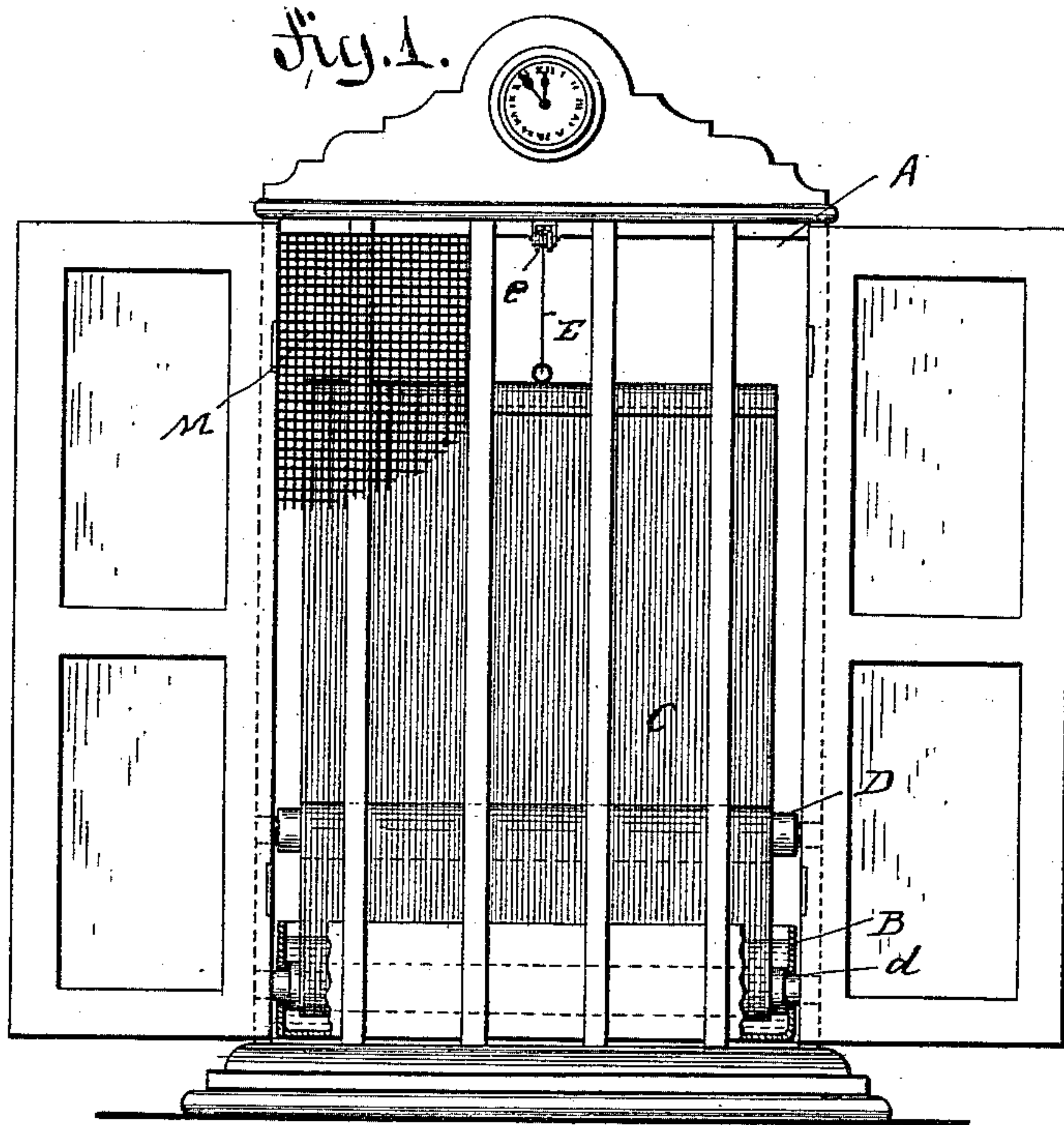


(No Model.)

C. N. SWIFT.
AIR MOISTENING APPARATUS.

No. 420,318.

Patented Jan. 28, 1890.



WITNESSES:

J. H. Rosenbaum.
Carl Key

INVENTOR

Charles N. Swift
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UNITED STATES PATENT OFFICE.

CHARLES N. SWIFT, OF NEW YORK, N. Y.

AIR-MOISTENING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 420,318, dated January 28, 1890.

Application filed April 13, 1889. Serial No. 307,109. (No model.)

To all whom it may concern:

Be it known that I, CHARLES N. SWIFT, of the city, county, and State of New York, a citizen of the United States, have invented certain new and useful Improvements in Air-Moistening Apparatus, of which the following is a specification.

This invention relates to an improved apparatus for cigar-cabinets and other closed structures, rooms, &c., in which a certain degree of moisture is to be supplied to the air in the same; and the invention consists of a cabinet or other inclosed space provided with a water-trough, a spring-roller to which is secured a sheet or piece of suitable absorbent textile material, and means for operating the spring-roller so as to pass the absorbent material through the water of the trough and raise the absorbent material and bring a large surface of the same in contact with the air in the cabinet.

In the accompanying drawings, Figure 1 represents a front elevation of a cabinet provided with my improved air-moistening device. Figs. 2 and 3 are vertical transverse sections of Fig. 1, showing different constructions of the moistening device.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, A represents a cigar cabinet or other inclosed space in which cigars or other articles that are required to be kept at a certain degree of moisture are stored. In the cabinet or other space A is arranged at the lower part of the same a sheet-metal trough B, which is filled with water. Through the trough B is passed a sheet C of absorbent fabric, which sheet is applied at one end to a spring-roller D of the well-known construction as used for window-shades, on which spring-roller D the sheet C may be wound or unwound therefrom, as desired. The spring-roller D may be supported in suitable bearings above the trough or in the trough, as desired, and as shown, respectively, in Figs. 2 and 3. When the spring-roller is supported above the trough, the sheet C has to be guided over a roller *d*, located in the trough, which construction is preferable, as the spring-roller does not re-

quire to be water-tight, as is necessary when the spring-roller is submerged in the water of the trough, as shown in Fig. 3.

To the upper end of the sheet C is applied a cord E, which is guided over pulleys at the top of the cabinet or other space A, and is provided at the front end with a suitable ring by means of which the cord can be pulled or released to operate the sheet C and spring-roller D. By properly actuating or releasing the spring-roller, the sheet C is caused to be wound upon the roller, during which motion the entire sheet passes through the trough B and is soaked with water. By then raising or unwinding the sheet C by pulling the cord E in opposite direction and then holding the sheet in the raised or unwound position by securing the cord E in a suitable manner, preferably by means of a so-called "wedge" or "clamping-roller" *e*, a large portion of the sheet is exposed to the air, and the moisture is evaporated from the same and the air in the cabinet is kept moist, as required for the goods in the same. The sheet is moistened at certain intervals of time by operating the spring-roller and winding up and unwinding the sheet, which is accomplished with great facility by the operating-cord E. In this manner a very simple moistening device for cabinets or other spaces is supplied, which is specially adapted to cigar manufacturers and dealers and all others who store goods which require a certain degree of moisture to keep in good condition, or the device may be used to supply moisture in a room.

A screen M is provided in the casing A between the space for the articles and the space for the absorbent sheet to prevent the boxes N being pushed back so far as to come in contact with the wet sheet.

I do not claim in this application anything which is contained in a pending application for air-moistening apparatus filed by me February 28, 1889, Serial No. 301,556.

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

The combination, with a cabinet or other storage compartment, of a water-trough in the same, a spring-roller, a sheet of absorb-

ent material applied to said spring-roller and
passed through the trough, a cord guided
over suitable pulleys for releasing or unwind-
ing said absorbent sheet, and a screen extend-
5 ing across the casing between the space for
the articles and the space for the absorbent
sheet, substantially as set forth.

In testimony that I claim the foregoing as
my invention I have signed my name in pres-
ence of two subscribing witnesses.

CHAS. N. SWIFT.

Witnesses:

CARL KARP,
MARTIN PETRY.