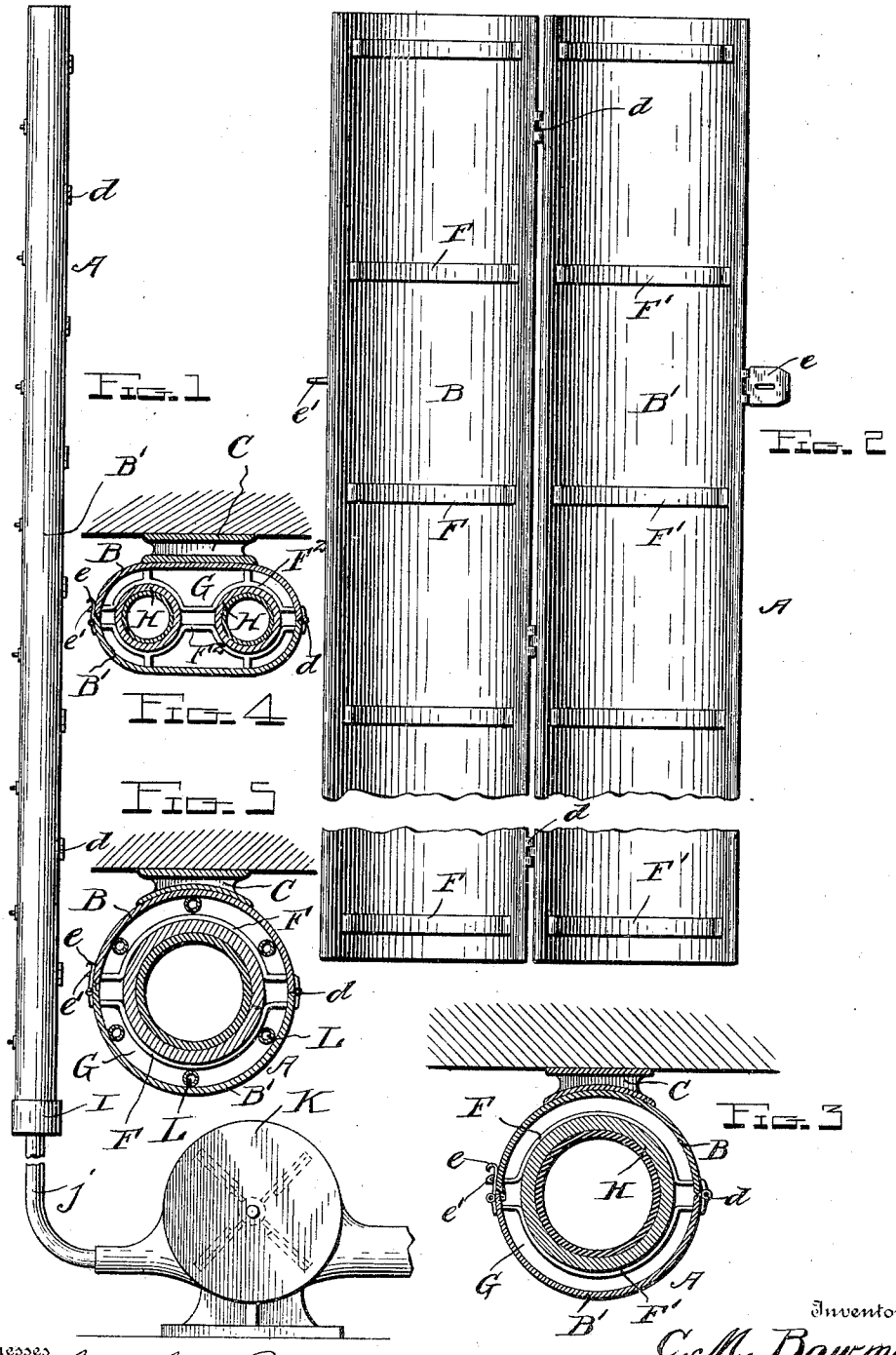
No. 684,741. Patented Oct. 15, 1901.

C. M. BOWMAN.

HOSE DRIER.

(Application filed Jan. 3, 1901.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

CHARLES MICHAEL BOWMAN, OF LEBANON, PENNSYLVANIA.

HOSE-DRIER.

SPECIFICATION forming part of Letters Patent No. 684,741, dated October 15, 1901.

Application filed January 3, 1901. Serial No. 41,977. (No model.)

To all whom it may concern:

Be it known that I, CHARLES MICHAEL BOWMAN, a citizen of the United States, residing at Lebanon, in the county of Lebanon and State of Pennsylvania, have invented certain new and useful Improvements in Hose-Driers; and I do 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.

This invention relates to a device for drying fire and other hose.

It has for its object to provide means whereby a wet hose may be supported while being subjected to the action of a confined drying medium, which is caused to circulate about the hose until the latter is dry.

With this and other minor objects in view the invention consists in certain novel features of construction, combination, and arrangement of parts, as will be hereinafter more fully described, and particularly pointed out in the appended claims.

In the accompanying drawings, Figure 1 is an outer front elevational view showing the application of the invention. Fig. 2 is an inner elevational view of the casing, showing the hinged section thereof thrown open. Fig. 3 is a cross-section through the casing, showing the manner in which the hose is held. Figs. 4 and 5 are detail sectional views showing modifications.

In carrying my invention into practice I provide a tubular or square metallic or wood inclosing casing or jacket A of relatively greater diameter than the hose, which casing consists of two like longitudinal sections or halves B and B′, one of which is adapted to be rigidly secured by brackets C to the wall of an engine-house or other suitable support, while the other is hinged, as shown at *d*, to open to admit the hose and to close to confine the same. The hinged section B′ may be divided into short sections and held closed by any preferred construction of locking means. In the present instance I have shown it provided at its free edge with a hasp *e* to engage a staple *e′* on the coöperating meeting edge of the fixed section B, through which staple a fastening of any desired type may be passed; but I may substitute therefor any other suitable form of holding means adapted for the purpose. Any other suitable means of securing or mounting the case or jacket may also be employed, or it may rest on the floor. The casing is provided at suitable intervals on the inside with means for gripping or holding the hose, said means consisting of movable bowed or semicircular-shaped arms F and F′, adapted to hold the hose between them. These arms have their curved or bowed portions spaced apart from the walls of the jacket-sections, and such portions of each pair of arms are of such size as to form an approximately annular clamp of the same diameter as the external diameter of the hose, whereby a space G is provided between the jacket and hose for the circulation of the drying medium. I may, however, employ brackets F^2, adapted to support one or more lines or sections of hose, or any other preferred holding or supporting means suitable for the purpose, and I may arrange the drier vertically or horizontally, as desired.

In operation the hose H is placed within the case or jacket and clamped and inclosed by closing and securing the hinged section B′. The lower end of the jacket is then sealed by means of a cap I, to which is connected a pipe *j*, leading from a hot or cold air drum or blower K. Upon starting this drum hot or cold air is forced into the jacket A and circulates through the circulating space or conductor G in contact with the hose, finally exhausting to the atmosphere at the upper end of the jacket. By this means the hose is quickly and thoroughly dried.

Instead of employing only driven hot or cold air as the drying medium I may, in connection with it, employ steam, hot water, or any other heated fluid. In employing hot water, steam, or a heated gas other than air the construction may be and preferably is modified by circulating the fluid through one or more pipes L, extending through the jacket, so as not to come into direct contact with the hose. I therefore do not limit myself to the use of any particular kind of drying medium or means for supplying the same.

My invention consists, broadly, in an inclosing case or jacket having a circulating space or conductor, formed in any approved way, for one or more sections of hose.

My invention is advantageous in supplying

a long-felt want in fire-engine houses and other establishments using water-hose in saving time in drying and in obviating one of the principal objections to the drying-towers now in use in relieving the hose of strain, whereby breaking of the hose at its points of connection with the couplings is prevented. The device is also simple of construction and may be manufactured and sold at a comparatively low cost.

Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent of the United States, is—

1. A hose-drier consisting of a jacket adapted to lineally support and to closely envelop the hose, said jacket being provided with end inlet and exhaust openings for a drying medium and with means for supporting the hose to leave an intervening longitudinal space or passage between the jacket and hose for the circulation of a current of the drying medium, substantially as described.

2. In a hose-drier, the combination of an inclosing jacket to envelop the hose, said jacket being open at one end, means for supporting the hose within the jacket to leave an intervening space between the jacket and hose for the passage of a current of the drying medium, heat-supplying means, a cap closing the other end of the jacket, and a connection between the said heat-supplying means and cap for supplying heated air or other heated fluid to the jacket to dry the hose, substantially as described.

3. A hose-drier, comprising an inclosing jacket consisting of relatively fixed and movable sections, and opposing spring-actuated gripping devices on said sections to engage and support the hose.

4. A hose-drier, comprising an inclosing case or jacket consisting of relatively fixed and movable sections, and spaced opposing gripping devices on the interior of said sections and adapted to hold the hose supported therein and to form an intervening space for the circulation of a drying medium.

5. In a hose-drier, the combination, with supporting means, of a hose-inclosing jacket comprising a fixed section secured to said supporting means and a movable section hinged or pivoted to said fixed section, and gripping devices carried by said sections and operated to grip the hose by the closing of the said movable section.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

CHARLES MICHAEL BOWMAN.

Witnesses:

J. F. ELLENBERGER,

JNO. F. HELM.