No. 697,006. Patented Apr. 8, 1902.

C. NUHRING.

FIRE EXTINGUISHING APPARATUS.

(Application filed Nov. 23, 1901.)

(No Model.)

Fig. 1.

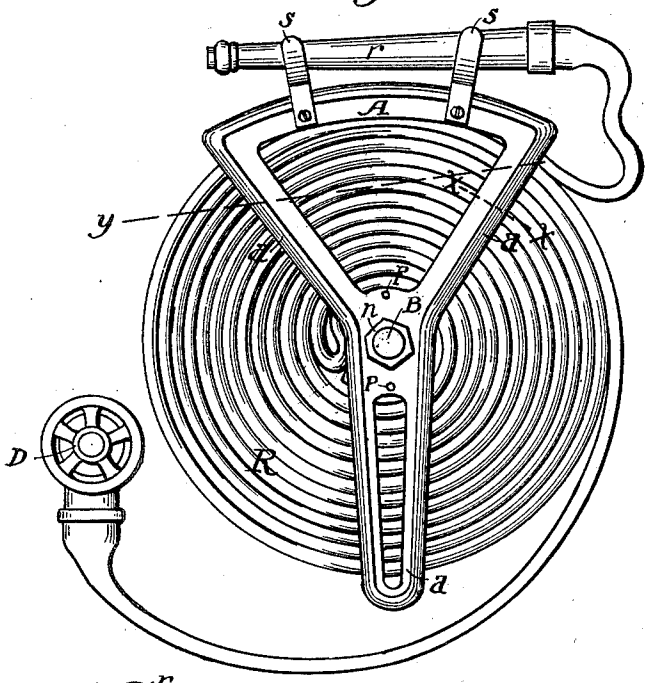


Fig. 5.



Fig. 3.

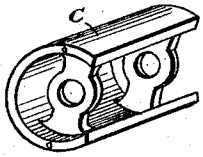


Fig. 2.

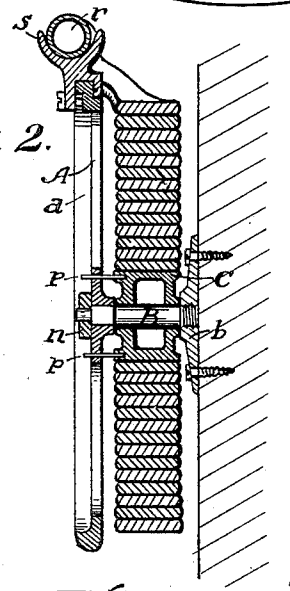
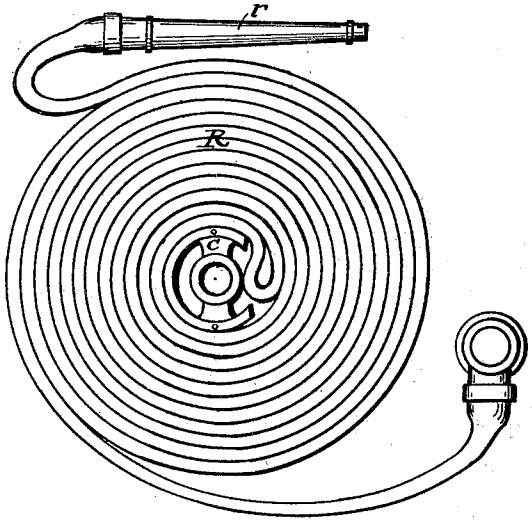


Fig. 4.



Witnesses.

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UNITED STATES PATENT OFFICE.

CHARLES NUHRING, OF CINCINNATI, OHIO.

FIRE-EXTINGUISHING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 697,006, dated April 8, 1902.

Application filed November 23, 1901. Serial No. 83,427. (No model.)

To all whom it may concern:

Be it known that I, CHARLES NUHRING, a citizen of the United States, residing at Cincinnati, in the county of Hamilton and State of Ohio, have invented new and useful Improvements in Fire-Extinguishing Apparatus, of which the following is a specification.

My invention relates to hose-supporting devices to be kept in place as an emergency apparatus for use against fire in buildings, &c., and is intended to provide a simple inexpensive reel device with suitable guides by which the hose may be kept always in a position of readiness for use and be run out in either direction to reach the fire area.

To this end the invention consists in a fixed supporting-frame consisting of a stud secured to a bracket-base adapted to be secured to a vertical wall or post, a revolving sleeve pivoted on the stud, and a guide-plate affixed to the outer end of the stud to retain the hose-roll and guide the same in unreeling. The hose being doubled over upon itself at about mid-length is wound double upon the revolving sleeve, forming a spiral roll, one outer end being provided with a nozzle and the other attached to the hose-plug.

My invention is illustrated in the accompanying drawings, in which—

Figure 1 is a front elevation of my device complete in place on a wall adjacent to the water-plug ready for use. Fig. 2 is a side cross-sectional elevation; Fig. 3, a perspective view of the revolving sleeve detached; Fig. 4, a front view of the roll of hose as it would appear on the stud and sleeve with the guide-plate removed; and Fig. 5, a detail cross-section at *x*, Fig. 1, showing the rounded contour of the bead or marginal run of the guide-plate.

Referring now to the drawings, A designates the guide-plate, (which is preferably formed in an approximately Y shape,) secured fixedly to the outer end of a stud B, projecting outwardly from a bracket-base *b*, by which it is secured to a vertical supporting-surface. The plate A may be cut away at the central portions to save metal and is preferably provided with a marginal bead or flange *a*, projecting outwardly, with rounded outer edge, as indicated by the cross-section Fig. 5.

The stud B is provided with a rotating sleeve C, which serves as a central support for the hose and is made large enough to suit the character of hose employed. The outer cylindrical portion of the sleeve may be cut away at one side to allow space for the initial fold of the hose and prevent too abrupt an angle of bending and protect it from the pressure of the external roll, as illustrated in Figs. 3 and 4.

The plate A is held to the stud as its support by a removable nut *n* and is preferably set upon a squared zone of the stud to prevent rotation. When in position, as indicated by Figs. 1 and 2, the hose-roll R is maintained against disarrangement by and between the supporting-wall, to which the bracket *b* is secured, and the inner face of the plate A.

The nozzle *r* of the hose is carried in hooks or supports *s*, which may be secured detachably to the plate A.

It will now be obvious that if the nozzle *r* is taken down and the hose drawn out to the right hand, Fig. 1, the roll will unwind without special contact with the plate A; but if the hose-nozzle be carried to the left the hose will bend around the right-hand side of the plate, as indicated by the dotted line *y*, and move in contact with the rounded outer surface of the bead or flange *a*. As the bead or flange *a* on the margin of the plate lies substantially radial to the stud B, the hose readily and without excessive friction slips downward as the roll diminishes, thus always preserving the tangential pulling relation with the roll. When the roll is exhausted, the hose falls completely away from the support downward. It will be seen that the hose unwinds completely without twisting, and it is practically impossible for the hose to catch or be obstructed in any manner. The arrangement is such also as to facilitate the use of devices acting automatically or otherwise to turn on the water when the nozzle is taken down and the unreeling begins, for the unreeling caused by running out the nozzle or discharge end of the hose also unreels an equal amount of the receiving end, so that as the attendant reaches the limit of the hose the water is discharging through its length without any delay.

In order to maintain the roll in proper po-

sition against accidental displacement, I prefer to insert one or more wooden pegs p or their equivalent through the plate A near the central perforation engaging in sockets in the end of the sleeve B. These or whatever fastening is used should be so slight as to be easily broken by the pull of the hose in unreeling.

I claim as my invention and desire to secure by Letters Patent of the United States—

1. A hose device embodying in combination a stud adapted to be affixed to a wall or vertical support, a central roller pivoted upon the stud, and a fixed vertical plate or guide to retain the hose in a roll between itself and the wall upon the roller operating upon the stud.

2. A hose device embodying in combination a stud adapted to be affixed to a support, a central roller pivoted upon the stud, and a fixed vertical plate or guide to retain the hose in a roll between itself and the support, said plate or guide being of substantially Y shape and having its side edge serving as a guide for the paying-out portion of the roll as the roll diminishes.

3. In a hose device of the character indicated, the combination of a stud adapted to be affixed to a wall or support, a roller mounted upon the stud and having its periphery partly removed or recessed to admit the bight of a doubled or folded hose, and a vertical plate or guide fixed to the stud and serving to retain the hose in a roll between itself and the wall.

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

CHARLES NUHRING.

Witnesses:
LLOYD T. BRUNSON,
L. M. HOSEA.