Sept. 21, 1926. 1,600,482

C. NUHRING

HOSE REEL

Filed Feb. 10. 1922 3 Sheets-Sheet 1

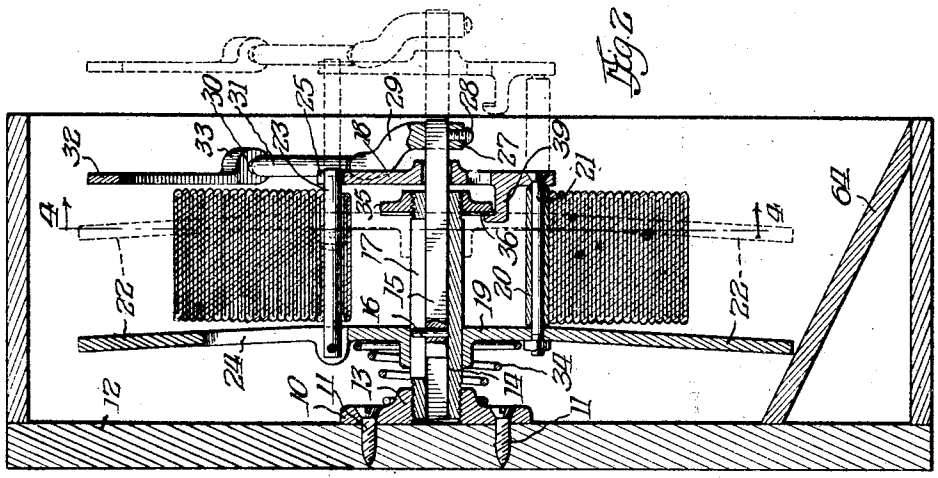
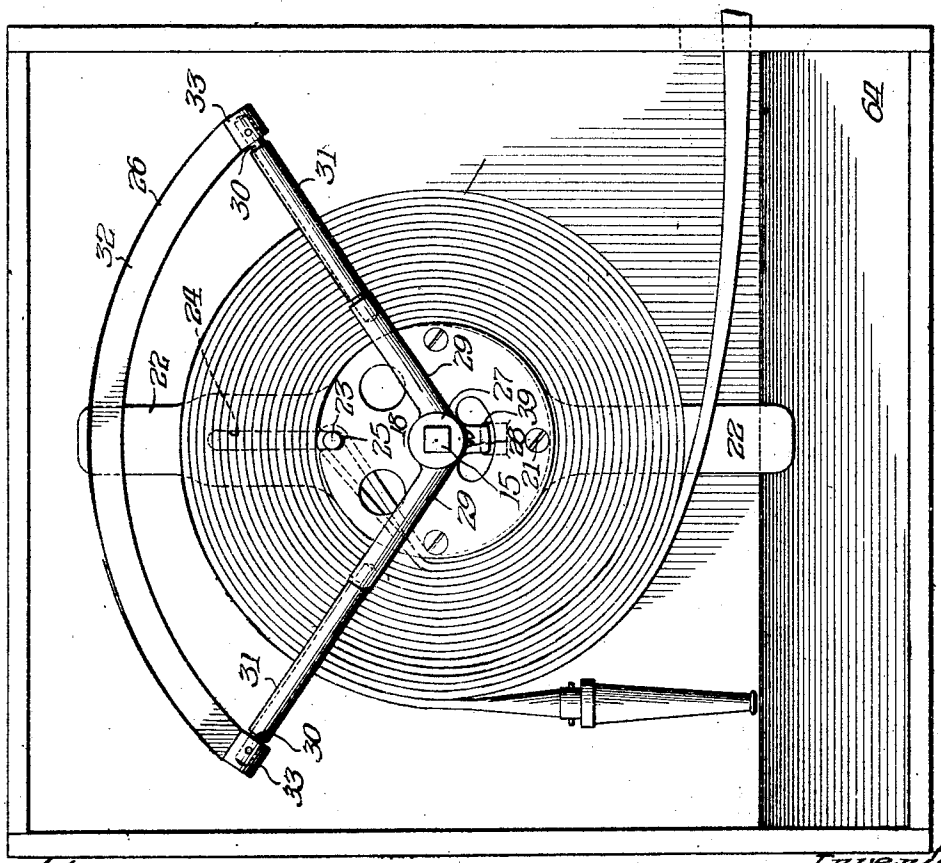


Fig 2



Witness:
Fig 1

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HOSE REEL

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Fig. 4.

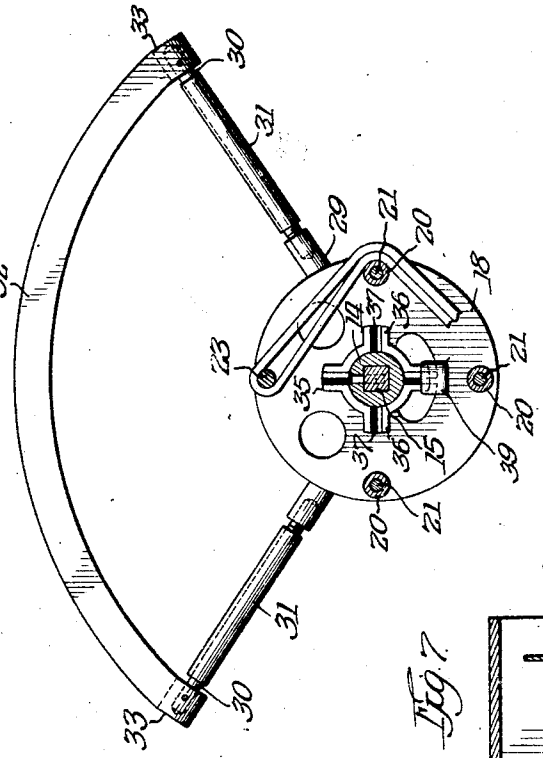


Fig. 5.

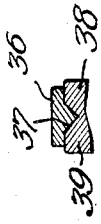


Fig. 7.

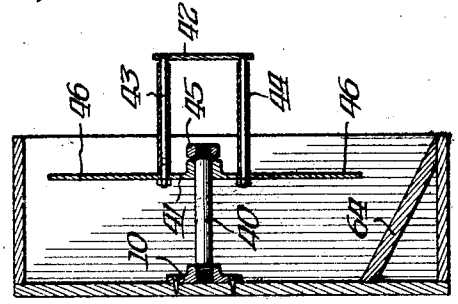


Fig. 3.

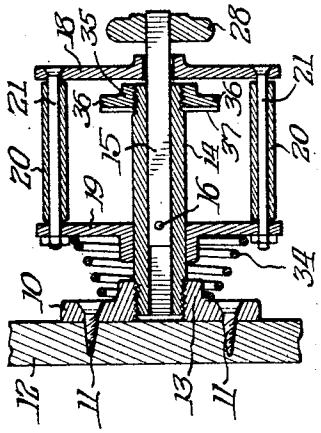
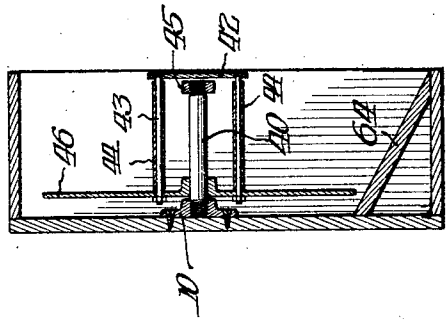


Fig. 6.



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HOSE REEL

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Fig. 8

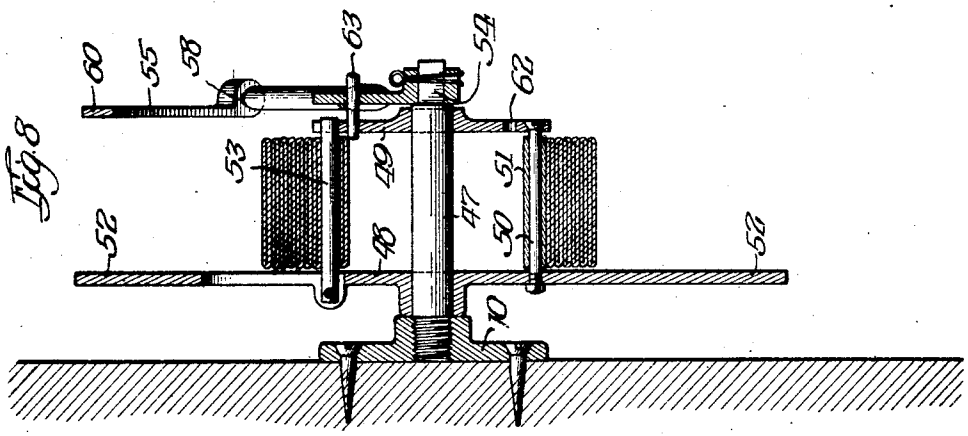
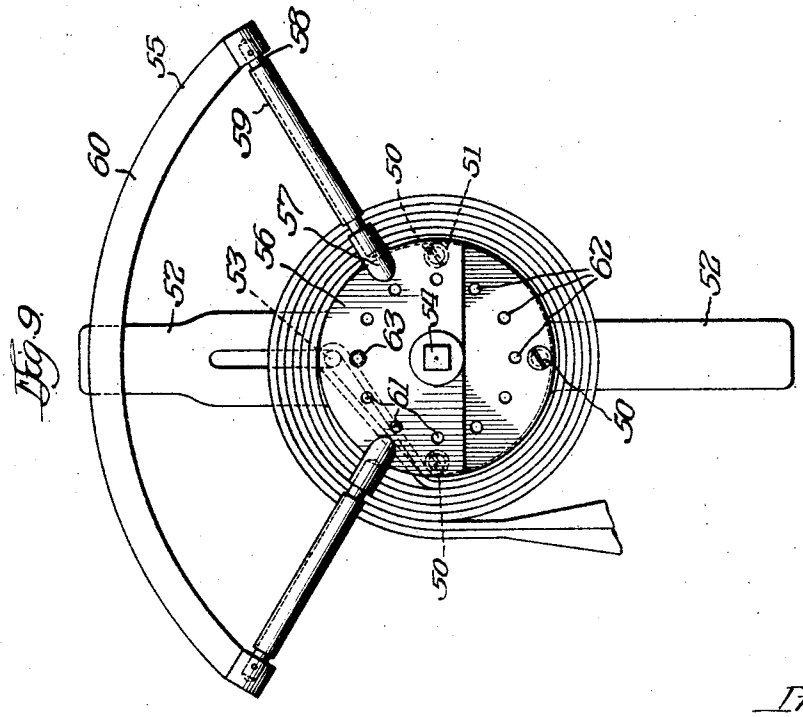


Fig. 9



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Patented Sept. 21, 1926. 1,600,482

UNITED STATES PATENT OFFICE.

CHARLES NUHRING, OF CINCINNATI, OHIO.

HOSE REEL.

Application filed February 10, 1922. Serial No. 535,454.

The present invention is related to hose supporting appliances, and more particularly to reels as distinguished from racks.

There is manifest advantage obtained by storing fire hose on a reel over the folding of the hose on a rack. This is especially true where the hose is made of textile fabric. Racking hose necessitates folding the same back and forth, and the formation of the folds causes creases crosswise of the hose. In time these creases induce cracking of the fabric, thus destroying the utility of the hose and requiring discharging of the same.

Hose reels heretofore employed are associated, in some instances, with cabinets for protecting the hose from accumulations of dust and dirt, and likewise from the deteriorating effects of the atmosphere. Reels, however, as generally used, are exposed to atmospheric conditions and subject the hose to the same. This is due to the difficulty of reeling and unreeling the hose if the reel be placed in a cabinet, and the inaccessibility of the reel for manipulation, as well as the fouling of the hose on the reel as the hose is unwound.

The invention herein disclosed aims to provide a novel construction of hose reel which will afford all the advantages inherent therein as an instrumentality for the storage of the hose, and at the same time enable the reel to be housed in a cabinet to protect the hose from dirt and deterioration such as occurs when stored on an exposed reel.

The invention further seeks to provide a novel form of hose reel which is readily responsive to requirements for use, and which acts automatically to be positioned with respect to its enclosing cabinet for discharge of the hose without liability of the latter fouling as the same is drawn from the reel.

The invention also has in view the provision of a hose reel which embodies in its construction highly efficient means for insuring compact winding of the hose thereon in the application of the hose to the reel, and the retention of the hose on the reel without diminishing its freedom of removal therefrom in the rotation of the reel.

Other objects and advantages of the improvements will appear as the nature thereof is better understood, the invention consisting substantially in the novel construction, combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and finally pointed out in the appended claims.

Divers forms of the invention are made the basis of the present disclosure, but such forms merely exemplify the latitude of the incorporation of the invention into tangible embodiment. Their presentation, therefore, is to be considered from the illustrative standpoint and not as imposing limitation or restriction upon the invention.

In the drawings—

Figure 1 is a side elevation of a hose reel constructed in accordance with the present invention and illustrated in association with a cabinet or housing.

Figure 2 is a vertical transverse sectional view thereof.

Figure 3 is a horizontal sectional view of the reel at the mid-portion thereof.

Figure 4 is a vertical sectional view on the line 4—4, Figure 2.

Figure 5 is a detail sectional view taken through the locking lug of the reel and illustrating its engagement with one of the holding ears, the illustration being on an enlarged scale.

Figure 6 is a view similar to Figure 2 of another form of the invention.

Figure 7 is a similar view of the form shown in Figure 6, the reel being illustrated in its projected position.

Figure 8 is a vertical transverse sectional view of a further form of the invention.

Figure 9 is a side elevation thereof.

Referring now in detail to the accompanying drawings, and with particular reference to that form of the invention illustrated in Figures 1 to 5, inclusive, the numeral 10 designates a wall bracket or plate designed to be affixed in a suitable manner to a support, as by screws 11, or their equivalent. As illustrated, the support is in the form of a cabinet or housing 12, one side of which is open, and which may be closed by a suitable door (not shown) appropriately arranged thereat. The bracket 10 has a screw threaded boss 13, and mounted in said screw threaded boss is a tubular supporting nipple 14 having screw threaded connection therewith. The nipple 14 constitutes the arbor on which the reel is rotatably mounted.

Slidably mounted within the bore of the nipple 14 is a supporting rod 15. This rod

is polygonal in cross-section, and the bore of said nipple 14 is correspondingly shaped, thus preventing turning movement of the rod 15 within the nipple. The supporting rod, however, is capable of telescopic movement within the nipple 14, so that it may be projected outwardly therefrom and moved inwardly thereinto, and in order to guide the rod 15 in this relative movement the same is provided with an outwardly extending pin 16, the free end of which is disposed within a slot 17 which extends lengthwise of the nipple 14 at one of its sides. The outward movement of the rod 15 thus is limited by engagement of the pin 16 with the outer end of said slot 17.

Rotatably mounted on the nipple 14 and the outer end of the rod 15 is the reel proper. This comprises a pair of substantially circular discs 18 and 19 separated at a suitable distance corresponding to the usual diameter of hose to be stored on the reel, said discs being held in this separated relation by a plurality of spacing sleeves 20 arranged about the edges of said discs, and each accommodating a fastening bolt 21 which extends from one of the discs to the other. These spacing sleeves 20 may be rotatable on the fastening bolts 21, and thereby assist in the application of the hose to and its removal from the reel. By reference to Figure 2, it will be observed that the disc 18 is mounted on the outer extremity of the supporting rod 15, while the disc 19 is mounted on the nipple 14, but both discs are rotatable on their respective supports so as to permit rotation of the reel on the nipple and rod which, obviously, are held against rotation.

The disc 19 is also provided with oppositely disposed radial arms 22 which extend a sufficient distance from the disc to provide abutments against which the hose may rest as the latter is wound upon the reel, and said arms 22 prevent rearward displacement of the hose from the reel in the event of inward pressure thereon.

It is customary, when reeling the hose, to place the same on the reel in double folds. Ordinarily, unless provision is made for the quick shedding of the innermost fold when the hose is unreeled, the hose will become fouled, and difficulty is experienced in completely releasing the hose from the reel. Manifestly, in the case of fire hose, provision should be made for quick release of the innermost fold in the shedding of the hose. To the accomplishment of this end the present invention includes an anchoring lever 23 which is pivoted at one end within a slot 24 formed in one of the arms 22, and adapted to swing outwardly from the axis of the reel. This lever 23 is sufficiently long to span the space between the discs 18 and 19. Its free end is received by a notch 25 formed in the peripheral edge of the disc 18 at a point opposite to the slot 24, and when in this position the innermost fold of the hose is anchored to the reel. This clearly appears from the dotted lines in Fig. 1. As the hose is unreeled it readily passes from the reel until the innermost fold thereof is reached, whereupon the pull on the hose swings the lever 23 outwardly on its pivot, and the innermost fold thus is readily shed from the latter in order completely to free the hose from its engagement with the reel.

Fixedly connected to the supporting rod 15 is a fan-shaped guard 26. It includes a hub 27 having a polygonal opening to receive the extremity of the rod 15, said hub being detachably held on said rod by a fastening screw 28, or its equivalent. A pair of diverging arms 29 is also carried by said hub, the outer ends of said arms 29 having screw threaded sockets into each of which is fitted an extension rod 30. Each of the latter has rotatably mounted thereon an antifriction roller sleeve 31, said sleeves loosely receiving the extension rods 30 so as freely to turn thereon. These sleeves 31, therefore, afford a rolling contact between the edges of the hose and the guard 26 in the rotation of the reel, and this assists not only in freedom of movement of the reel, but also prevents unnecessary frictional wear between the hose and the guard. The outer ends of the rods 30 have connected thereto an arcuate head 32, the extremities of which are provided with bosses 33 into which the rods 30 are fitted. In the provision of the guard 26 means are afforded for preventing displacement of the hose outwardly from the reel, and in the rotation of the latter, both in applying the hose to the same and removing the hose therefrom it is apparent that the hose must pass between the arms 22 and the guard 26.

While the construction above described may be used with or without the cabinet 12, provision is afforded for effecting automatically projection of the reel from the cabinet when the latter is employed. This is essential to facilitate application of the hose to the reel, but more particularly for the expeditious removal of the same therefrom. To this end a coil spring 34 is interposed between the disc 19 and the wall bracket 10, this spring being preferably of the conical type, and its expansive force is utilized, under proper conditions, to force the reel outwardly along the nipple 14. But in the retracted position of the reel within the cabinet 12 the same must be locked against outward thrust, and to establish this condition a nut 35 is threaded upon the outer extremity of the nipple 14, said nut being provided with radially extending holding ears 36. The inner face of each of the holding ears 36 is provided with an angular rib 37 adapted to be received by an angular socket 38

formed in an inwardly extending locking lug 39 carried by the disc 18. This locking lug is adapted to engage any one of the holding ears 36, and when so engaged it is held thereagainst by the outward pressure of the spring 34 exerted upon the reel. Because of the engagement of the angular ribs 37 with the recess 38 of the lug 39, the reel is held against rotation unless and until sufficient pressure is exerted thereon to rotate the same. This occurs when the nozzle of the hose is grasped and pulled for unreeling the hose, and at such time the locking lug 39 moves away from the holding ear with which it is engaged, and as soon as the lug has moved out of alignment with such ear the spring 34 immediately expands, and pushes the reel bodily in an outward direction over the nipple 14 to the position illustrated by dotted lines in Figure 2. Its outward movement is checked by contact of the disc 19 with the nut 35 and the holding ears 36, and when so positioned the hose on the reel may be expeditiously unwound therefrom. In such outward movement the guard 26 is also projected outwardly, due to contact of the hose therewith, and likewise contact of the disc 18 with the arms 29 of the guard. This causes the supporting rod 15 to move outwardly from the nipple 14, coming to rest by reason of engagement of the pin 16 with the end of the slot 17. Obviously, after the hose is unwound, and it is desired to replace the same, it is but necessary to apply the innermost fold or loop to the lever 23 which is swung into engagement with the notch 25, and by grasping the radial arms 22, rotation of the reel may be effected. The hose thus is wound on the reel, and in the winding action its loops or folds become tightened so as to compact the mass of the hose. When the winding or reeling has been completed, inward pressure is applied to the reel to move it to the full line position shown in Figure 2, and in such movement the spring 34 becomes compressed. After the inner end of the locking lug 39 has passed beyond the vertical plane of the holding ears 36, and said lug is positioned in rear of one of said ears, pressure on the reel is relaxed, and the spring 34 thereupon exerts itself to force the locking lug 39 against the holding ear with which it is engaged. This positions the reel in its retracted relation to the cabinet 12, and confines the reel and the hose carried thereby within the cabinet. If the latter be provided with a door, the cabinet then may be closed, and the reel and hose protected against accumulations of dirt and the deteriorating effect of the atmosphere.

It is apparent from the foregoing that the reel proper is movable on the supporting nipple 14 within limits defining rotating and non-rotating positions of the reel. It is the position of rotation that is occupied by the reel as illustrated by dotted lines in Fig. 2, or when the disc 19 is in contact with the nut 35 and its holding ears 36; its position of non-rotation is that of the reel shown by full lines in Fig. 2, or when the locking lug 39 is engaged with one of the holding ears 36 and the spring 34 is compressed.

In Figures 6 and 7 is illustrated another form of the invention wherein the spring 34 is omitted. With the omission of the spring the construction of the reel correspondingly is simplified. This form includes the wall plate or bracket 10 with which is associated a supporting spindle 40. The reel, which may comprise the discs 41 and 42, connected by bolts 43 around which are disposed the spacer sleeves 44, is slidably mounted on the spindle 40, the disc 41 only having this slidable connection with the spindle. The free extremity of the latter has a nut 45 thereon, and this nut constitutes a stop to limit the outward movement of the reel. The reel is also provided with the radial arms 46, and may or may not be provided with the fan guard 26 of the form illustrated in Figures 1 to 5, inclusive.

In the use of the form of Figures 6 and 7, it is apparent that the reel will remain in position either at the limit of its outward projection or inward retraction, and it is moved to either of these limits solely by application of manual pressure.

In Figures 8 and 9 is illustrated a further form of the invention. This includes the wall plate or bracket 10 with which is associated a supporting spindle 47. In this form, however, the reel does not slide upon the spindle 47. The reel comprises the spaced discs 48 and 49 connected by fastening bolts 50 surrounded by the spacer sleeves 51, and said disc 48 is also provided with the radial arms 52, with one of which is associated the lever 53, corresponding to the lever 23, by which the inner fold of the hose is anchored to the reel. The outer extremity of the spindle 47 is reduced to afford a polygonal neck 54, and mounted on said neck 54 is a fan-shaped guard 55, similar in function to the guard 26. The guard 55 includes an attaching segment 56 having divergently arranged bosses 57 provided with screw threaded sockets into which extension rods 58 are introduced and engaged, and surrounding said rods 58 are anti-friction roller sleeves 59, similar to the sleeves 31. An arcuate head 60 is connected to the upper ends of the rods 58, in a manner similar to the arcuate head 32. The attaching segment 56 has a plurality of openings 61 formed therein circumferentially with respect to the neck 54, and said openings 61 register with a series of openings 62 arranged in the disc 49 concentrically with respect to the spindle 47. One or more locking pins 63 may be introduced into the open-

ings 61 and 62, which pins are preferably of a fragile character so as to be easily broken, such as wooden pins, when pull is exerted on the nozzle of the hose to rotate the reel. In such circumstances the breaking of the pins frees the reel from its locked relation to the non-rotating guard 55, and permits the reel to have turning movement about the spindle 47.

From the preceding description, and the reference to the operation of the several forms of the reel as this description has proceeded, the purpose of the invention will be readily seen, and the facility of operation of the several forms clearly deduced, and it is manifest that where the reel is housed in a cabinet the hose is not only protected against accumulation of dirt and the deteriorating effect of the atmosphere, but it is readily accessible and may be easily and expeditiously withdrawn from the cabinet when occasion for use of the same arises.

Where the reel is employed with a cabinet, it is desirable that provision be made to insure outward movement of the hose when it is unreeled in the event that the hose contacts with the bottom of the cabinet. This may be effected by providing in the bottom of the cabinet an inclined deflector wall 64, this deflector extending throughout the width of the cabinet. If the hose should contact with or fall upon the deflector 64, the inclination thereof will cause the hose to pass outwardly from the cabinet and not remain lodged in the bottom of the same.

I claim:

1. A normally housed hose reel, comprising an extensible supporting spindle, an axially movable reel proper rotatably mounted thereon and comprising a plurality of separated discs, connections between said discs to maintain them in separated relation, and means carried by one of said discs and serving as a guide for the hose and as an operating element for rotation of the reel.

2. A normally housed hose reel, comprising an extensible supporting spindle, an axially movable reel proper rotatably mounted thereon and comprising a plurality of separated discs, connections between said discs to maintain them in separated relation, and oppositely disposed radial bars carried by one of said discs and serving as guides for the hose and as operating elements for rotation of the reel.

3. A normally housed hose reel, comprising an extensible supporting spindle, an axially movable reel proper rotatably mounted theeron and comprising a plurality of separated discs, connections between said discs to maintain them in separated relation, means carried by one of said discs and serving as a guide for the hose and as an operating element for rotation of the reel, and means spanning the space between said discs and serving as an anchor for the innermost fold the hose mounted upon said reel.

4. A normally housed hose reel, comprising an extensible supporting spindle, an axially movable reel proper rotatably mounted thereon and comprising a plurality of separated discs, connections between said discs to maintain them in separated relation, means carried by one of said discs and serving as a guide for the hose and as an operating element for rotation of the reel, and a pivoted outwardly swinging lever spanning the space between said discs and serving as an anchor for the innermost fold of the hose mounted upon said reel.

5. A normally housed hose reel, comprising an extensible supporting spindle, an axially movable reel proper rotatably mounted thereon and comprising a plurality of separated discs, connecting bolts between said discs to maintain them in separated relation, and spacer sleeves mounted on said bolts and arranged between said discs.

6. A hose reel, comprising a supporting spindle, a reel proper rotatably mounted thereon and comprising a plurality of independent discs assembled in separated relation, spaced connections between said discs to maintain the same in separated relation, and means carried by one of said discs and serving as a guide for the hose and as an operating element for rotation of the reel.

7. A hose reel, comprising a supporting spindle, a reel proper rotatably mounted thereon and comprising a plurality of independent discs assembled in separated relation, spaced connections between said discs adjacent the peripheries of the same to maintain the discs in separated relation, and oppositely disposed radial bars carried by one of said discs and serving as guides for the hose and as operating elements for rotation of the reel.

8. A hose heel, comprising a supporting spindle, a reel proper rotatably mounted thereon and comprising a plurality of independent discs assembled in separated relation, spaced connections between said discs adjacent the peripheries of the same to maintain the discs in separated relation, means carried by one of said discs and serving as a guide for the hose and as a supporting element for rotation of the reel, and means spanning the space between said discs and serving as an anchor for the innermost fold of the hose mounted upon said reel.

9. A hose reel, comprising a supporting spindle, a reel proper rotatably mounted thereon and comprising a plurality of independent discs in separated relation, spaced connections between said discs adjacent the peripheries of the same to maintain the discs in separated relation, oppositely disposed radial bars carried by one of said discs and

serving as guides for the hose and as supporting elements for rotation of the reel, and a pivoted outwardly swinging lever spanning the space between said discs and serving as an anchor for the innermost fold of the hose mounted upon said reel.

10. A hose reel, comprising a supporting plate, a supporting nipple fixedly associated with said supporting plate, a supporting rod slidably mounted in said supporting nipple, a reel suitably mounted on said rod and nipple, a resilient member interposed between said supporting late and said reel for effecting movement of the reel lengthwise of the supporting means, and interlocking means interposed between said reel and said supporting means adapted to restrain the reel against such lengthwise movement.

11. A hose reel, comprising a supporting means, a reel proper mounted on said supporting means and movable thereon within limits defining rotating and non-rotating positions of the reel proper, means for holding said reel proper in its non-rotating position, and means for moving said reel proper to its rotating position when said holding means are released.

12. A hose reel, comprising a supporting means, a reel proper mounted on said supporting means and movable thereon within limits defining rotating and non-rotating positions of the reel proper, means for restraining said reel proper against movement from its non-rotating position, and means for moving said reel proper to its rotating position when freed from the influence of said restraining means.

13. A hose reel, comprising supporting means, a reel proper mounted on said supporting means and movable thereon within limits defining rotating and non-rotating positions of the reel proper, means for restraining said reel proper against movement from its non-rotating position, and resilient means for moving said reel proper to its rotating position when freed from the influence of said restraining means.

14. A hose reel, comprising supporting means, a reel proper mounted on said supporting means and movable thereon within limits defining rotating and non-rotating positions of the reel proper, means for holding said reel proper in its non-rotating position, and a spring held under compression by the reel proper while the latter is restrained against movement from its non-rotating position, said spring serving to move said reel proper to its rotating position when the reel proper is freed from the influence of said restraining means.

15. A hose reel, comprising a supporting nipple, a reel proper mounted on said nipple and movable thereon within limits defining rotating and non-rotating positions of the reel proper, means for holding said reel proper in its non-rotating position, means for moving said reel to its rotating position when said holding means are released, a supporting rod slidably mounted in said supporting nipple, and a guard carried by said supporting rod, said guard and rod being movable with respect to the supporting nipple to conform to the rotating and non-rotating positions of the reel proper.

16. A hose reel, comprising a supporting nipple, a reel proper mounted on said nipple and movable thereon within limits defining rotating and non-rotating positions of the reel proper, means for holding said reel proper in its non-rotating position, means for moving said reel proper to its rotating position when said holding means are released, a supporting rod slidably mounted in said supporting nipple, a guard carried by said supporting rod, said guard and rod being movable with respect to the supporting nipple to conform to the rotating and non-rotating positions of the reel proper, and means for limiting the outward movement of the supporting rod relatively to the nipple.

17. A hose reel comprising a supporting nipple having a longitudinal slot, a reel proper mounted on said nipple and movable thereon within limits defining rotating and non-rotating positions of the reel proper, means for holding said reel proper in its non-rotating position, means for moving said reel proper to its rotating position when said holding means are released, a supporting rod slidably mounted in said supporting nipple, a guard carried by said supporting rod, said guard and rod being movable with respect to the supporting nipple to conform to the rotating and non-rotating positions of the reel proper, and a pin carried by said supporting rod and projecting into the slot of said nipple for limiting the outward movement of the supporting rod relatively to said nipple.

18. A hose reel, comprising a supporting nipple, a reel proper mounted on said nipple and movable thereon within limits defining rotating and non-rotating positions of the reel proper, means for holding said reel proper in its non-rotating position, means for moving said reel proper to its rotating position when said holding means are released, a supporting rod slidably mounted in said supporting nipple, and a fan-shaped guard carried by said supporting rod, said guard and rod being movable with respect to the supporting nipple to conform to the rotating and non-rotating positions of the reel proper.

19. A hose reel, comprising a supporting nipple, a reel proper mounted on said nipple and movable thereon within limits defining rotating and non-rotating positions of the

reel proper, means for holding said reel proper in its non-rotating position, means for moving said reel proper to its rotating position when said holding means are released, a supporting rod slidably mounted in said supporting nipple, a pair of divergent arms carried by said supporting rod, and an arcuate head carried by said arms, said head and arms constituting a guard movable with the supporting rod in relation to the supporting nipple to conform to the rotating and non-rotating positions of the reel proper.

20. A hose reel, comprising a supporting nipple, a reel proper mounted on said nipple and movable thereon within limits defining rotating and non-rotating positions of the reel proper, means for holding said reel proper in its non-rotating position, means for moving said reel proper to its rotating position when said holding means are released, a supporting rod slidably mounted in said supporting nipple, a pair of divergent arms carried by said supporting rod, an arcuate head carried by said arms, said arms and head constituting a guard movable with the supporting rod in relation to the supporting nipple to conform to the rotating and non-rotating positions of the reel proper, and means for limiting the outward movement of the supporting rod relatively to the nipple.

21. A hose reel, comprising a supporting means, a reel proper mounted on said supporting means and movable thereon within limits defining rotating and non-rotating positions of the reel proper, a holding ear carried by said supporting means, a locking nut carried by the reel proper and adapted to engage said holding ear to hold the reel proper in its non-rotating position, and means for moving said reel proper to its rotating position when the holding ear and locking lug are disengaged.

22. A hose reel, comprising a supporting means, a reel proper mounted on said supporting means and movable thereon within limits defining rotating and non-rotating positions of the reel proper, a holding ear carried by said supporting means, a locking nut carried by the reel proper and adapted to engage said holding ear to hold the reel proper in its non-rotating position, and resilient means for moving said reel proper to its rotating position when the holding ear and locking nut are disengaged.

23. A hose reel, comprising a supporting means, a reel proper mounted on said supporting means and movable thereon within limits defining rotating and non-rotating positions of the reel proper, a holding ear carried by said supporting means, a locking nut carried by the reel proper and adapted to engage said holding ear to hold the reel proper in its non-rotating position, and a spring held under compression by the reel proper during engagement of the locking lug and the holding ear, said spring serving to move said reel proper to its rotating position, when the holding ear and locking lug are disengaged.

24. A hose reel, comprising supporting means, a reel proper mounted on said supporting means and movable thereon within limits defining rotating and non-rotating positions of the reel proper, a holding ear carried by said supporting means, a locking lug carried by the reel proper and adapted to engage said holding ear to hold the reel proper in its non-rotating position, the locking lug and holding ear being complementally provided with an angular rib and corresponding recess for reception of the rib to hold the reel proper against rotation, and means for moving said reel proper to its rotating position when the holding ear and locking lug are disengaged.

25. A hose reel, comprising a supporting means, a reel proper mounted on said supporting means and movable thereon within limits defining rotating and non-rotating positions of the reel proper, radially extending holding ears carried by said supporting means, a locking lug carried by the reel proper and adapted to engage one of said holding ears determined by the rotative relation of the reel proper to hold the reel proper in its non-rotating position, and means for moving said reel proper to its rotating position when the holding ear and locking lug are disengaged.

26. In a hose supporting appliance, the combination with a cabinet having an open side, of a support fixedly mounted therein, a reel mounted on said support and movable thereon into and out of the cabinet, said reel being in non-rotating position when within the cabinet and in rotating position when projected outwardly therefrom, means for holding said reel in its non-rotating position, and means for moving said reel outwardly from the cabinet to its rotating position when said holding means are released.

27. In a hose supporting appliance, the combination with a cabinet having an open side, of a support fixedly mounted therein, a reel mounted on said support and movable thereon into and out of the cabinet, said reel being in non-rotating position when within the cabinet and in rotating position when projected outwardly therefrom, means for holding said reel in its non-rotating position, and resilient means for moving said reel outwardly from the cabinet to its rotating position when said holding means are released.

28. In a hose supporting appliance, the combination with a cabinet having an open side, of a support fixedly mounted therein, a reel mounted on said support and movable thereon into and out of the cabinet, said reel

being in non-rotating position when within the cabinet and in rotating position when projected outwardly therefrom, means for holding said reel in its non-rotating position, and a spring interposed between the reel and cabinet and held under compression by the reel while the latter is retracted against movement from its non-rotating position, said spring serving to project the reel outwardly from the cabinet to its rotating position when the reel is freed from the influence of said holding means.

29. In a hose supporting appliance, the combination with a cabinet having an open side, of a support mounted therein, a reel mounted on said support, and movable thereon into and out of the cabinet, and an inclined deflector located in said cabinet below the reel for shedding the hose from the cabinet as the hose contacts with the deflector.

30. A hose reel, comprising a supporting arbor, a reel proper associated with said arbor and including a pair of spaced members one of which is slidably and rotatably mounted on said arbor, said reel proper being movable axially of said arbor, and a head carried by said arbor and against which said reel member is adapted to contact to limit the axial movement of said reel proper with respect to said arbor.

In testimony whereof I have hereunto signed my name.

CHARLES NUHRING.

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Certificate of Correction.

It is hereby certified that in Letters Patent No. 1,600,482, granted September 21, 1926, upon the application of Charles Nuhring, of Cincinnati, Ohio, for "Hose Reels," errors appear in the printed specification requiring correction as follows: Page 1, line 13, for the word "discharging" read *discarding;* page 5, line 13, claim 10, for the word "late" read *plate;* and that the said Letters Patent should be read with these corrections therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 12th day of October, A. D. 1926.

[SEAL.]

M. J. MOORE,
Acting Commissioner of Patents.