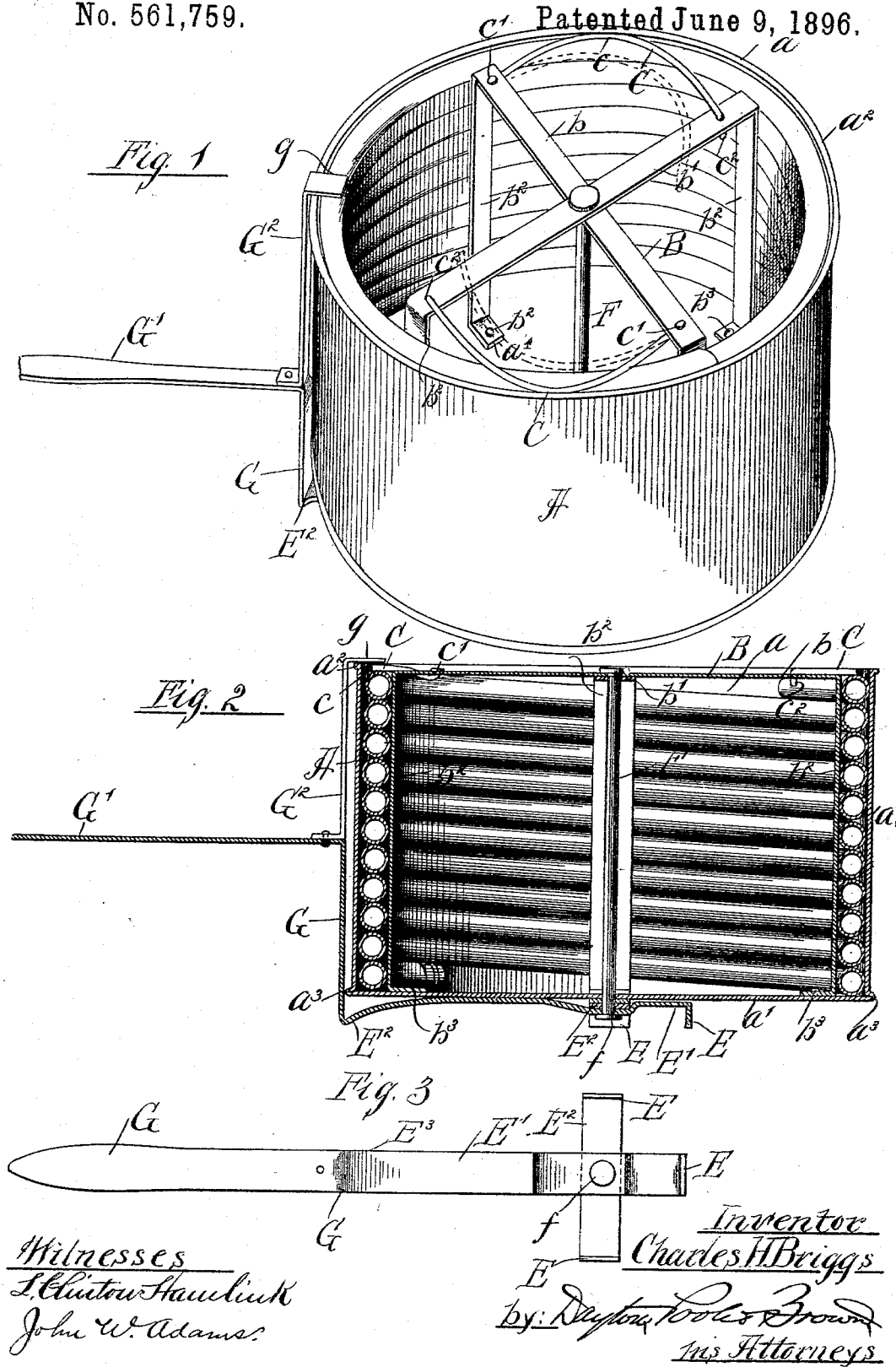


(No Model.)

C. H. BRIGGS.
HOSE REEL.

No. 561,759.

Patented June 9, 1896.



UNITED STATES PATENT OFFICE.

CHARLES H. BRIGGS, OF KANKAKEE, ILLINOIS, ASSIGNOR OF ONE-HALF TO
THOMAS A. KERR, OF SAME PLACE.

HOSE-REEL.

SPECIFICATION forming part of Letters Patent No. 561,759, dated June 9, 1896.

Application filed January 18, 1896. Serial No. 575,965. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. BRIGGS, of Kankakee, in the county of Kankakee and State of Illinois, have invented certain new and useful Improvements in Hose-Reels; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to reels for hose or the like; and the object of the invention is to provide a reeling device of the character referred to within which the hose may be coiled with the utmost facility and in such manner as to reduce the injurious bending of the same to a minimum, which will serve as a housing for the protection of the hose, and which also constitutes a carriage by means of which the hose may be conveyed from place to place.

The invention consists in the matters hereinafter described, and more particularly pointed out in the appended claims, and will be readily understood from the following description, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective of a device embodying my invention. Fig. 2 is an axial section of the same. Fig. 3 is a detail of the combined reel support and handle.

The invention is shown in the present instance as embodied in a reel especially adapted for reeling garden-hose or the like; but it will be obvious that the invention is capable of use, with little or no change, for a wide variety of purposes.

Referring to said drawings, A designates as a whole a drum-like receptacle having cylindrical sides a and closed bottom a' and made open at its upper end. Said receptacle is herein shown as conveniently made of sheet metal and provided with a strengthening-flange a^2 around its upper open end, and as having its side and end walls united by means of a flanged and crimped seam a^3 , forming an exterior flange, substantially like the strengthening-flange a^2 .

B designates as a whole a suitable skeleton frame adapted to prevent the hose from becoming displaced after it has been suitably coiled within the receptacle, said frame being

shown in this instance as consisting of a spider having arms b and b' , the ends of which are connected with standards b^2 , rising from the lower end wall of the receptacle A, parallel with the cylindric side wall a and at a distance therefrom slightly greater than the exterior diameter of the hose for which the receptacle is adapted. Said standards are shown as conveniently secured rigidly to the said lower end wall a' by means of rivets b^3 , inserted through said end wall and through the right-angled lower end portions a^4 of said standards.

In order that the hose may be prevented from uncoiling or falling from the receptacle when the latter is turned upon its side or inverted, as hereinafter described, arms C are provided at opposite sides of the spider B, each arranged to extend from one arm b to the next adjacent arm b' and curved outwardly in a horizontal plane, so as to extend at its middle portion c adjacent to or in contact with the inner surface of the side wall a , thus overlying the hose coiled against the interior of the receptacle. Said arms C have pivotal connection at one end c' with the arms b , and are provided at their other ends with right-angled downturned portions c^2 , which are removably inserted through suitable apertures formed in the arms b' .

The receptacle A is revolubly mounted so as to rotate when in upright position about a horizontal axis. Suitable means for thus supporting the receptacle are herein shown as consisting of three short leg-standards E, E', E'', which latter are rigidly united with each other.

F designates a rod arranged to extend axially through the receptacle A and through the center of the spider B, said rod F being herein shown as revolubly mounted in said parts, so as to form an axle. At its lower end the rod F extends outside of the receptacle and through the crossed bars E' E'' at the intersection of the latter, the bars being held thereon by means of a suitable head f .

As a convenient way of providing a handle whereby the receptacle may be rolled or trundled along upon its side, one end of the cross-bar E' is shown as extended radially outward beyond the periphery of the receptacle, then

turned at right angles upwardly, as shown at G, to a point about midway of the height of the drum, and then radially outward again a proper distance to form a suitable handhold G'. The said part E' is shown as deflected downwardly adjacent to the angle thereof to form in effect a fourth leg or standard E², which acts in conjunction with the leg-standards E to hold the receptacle in an upright position.

The use of the device thus constructed will be obvious, but may be briefly described as follows: When it is desired to roll up the hose or coil it in the receptacle, the arms C are disconnected at their removable ends and swung inwardly, as indicated in dotted lines in Fig. 1. The operator now inserts the end of the hose between one of the standards b² and the inner cylindric side of the receptacle, adjacent to the lower end thereof, and commences reeling by thrusting the hose into the receptacle in a tangential direction. This thrust of the hose causes the receptacle to revolve upon its standards in a direction away from the operator, and thus coils the hose properly in place. After the hose has been reeled the arms are replaced in their proper position. The unreeling of the hose may obviously be the reverse of the foregoing operation, but usually it will be more conveniently accomplished by disconnecting the arms at their detachable ends, moving them inwardly out of the way of the hose, and attaching the end of the hose to the hydrant and turning the device upon its side and rolling it away in the direction desired. When thus manipulated, the hose will unreel itself as the device is rolled along in a most satisfactory manner and without possibility of becoming kinked or bent at a sharp angle. In order that the first two or three coils may not drop out as soon as the receptacle is turned upon its side, an arm G² is mounted upon the handle G' and is provided with an inturned end g, which serves to hold the coils from falling out until paid out by the rotation of the reel.

When it is desired to convey the hose from one place to another, the receptacle is simply turned upon its side and, using the part G' as a handle, is trundled along, wheelbarrow fashion.

The receptacle or reel with the hose coiled therein will usually be stored in an inverted position, the receptacle thus serving as a complete housing and protection for the hose. A further advantage incident to thus inverting the receptacle is that by reason of the fact that the hose is coiled therein in the form of a helix all water and moisture will naturally flow to the outer end of the hose and escape through the open end of the receptacle, thus insuring that water will never remain for any considerable length of time within the hose.

While I have herein shown what I deem to be a preferred embodiment of my invention, yet it will be obvious that various modifica-

tions may be made without departing from the spirit thereof and without involving more than ordinary mechanical skill. I do not, therefore, wish to be limited to the precise details of construction shown.

I claim as my invention—

1. The combined reel and housing for hose and the like comprising an open-topped receptacle provided with circular sides against the interior of which the hose is adapted to be coiled concentrically and the support upon which said receptacle is revolvably mounted so as to rotate about a vertical axis.

2. A combined reel and housing for hose and the like comprising an open-topped receptacle having cylindric sides, a support upon which said receptacle is revolvably mounted so as to rotate about a vertical axis and a handle connected therewith whereby the receptacle may be trundled upon its cylindric side.

3. A combined reel and housing for hose and the like, comprising an open-topped receptacle having cylindric sides, an inner supporting-frame provided with parts arranged parallel with the inner cylindric side of the receptacle and between which and said inner cylindric sides the hose is adapted to be coiled, a support upon which said receptacle is revolvably mounted and a handle whereby the receptacle may be trundled upon its cylindric side.

4. A combined reel and housing for hose and the like comprising an open-topped cylindric receptacle, a supporting-frame with said receptacle consisting of standards secured to the end wall of the receptacle and extending parallel with the cylindric wall thereof and a spider connected with the upper ends of said standards, a support upon which said receptacle is revolvably mounted comprising crossed bars each provided with supporting-legs, said support having revolvable connection with the receptacle at the center of the bottom thereof and a handle connected with the said support, whereby the receptacle may be trundled upon its cylindric side.

5. A combined reel and housing for hose and the like comprising an open-topped cylindric receptacle and supporting-frame arranged within said receptacle adapted to hold the hose in the coiled position against the interior of the receptacle, pivoted arms mounted upon said supporting-frame adapted to prevent the hose uncoiling, a support upon which said receptacle is revolvably mounted and a handle connected with said support, substantially as described.

In testimony that I claim the foregoing as my invention I affix my signature, in presence of two witnesses, this 6th day of January, A. D. 1896.

CHARLES H. BRIGGS.

Witnesses:

ALBERT H. GRAVES,
WILLIAM L. HALL.