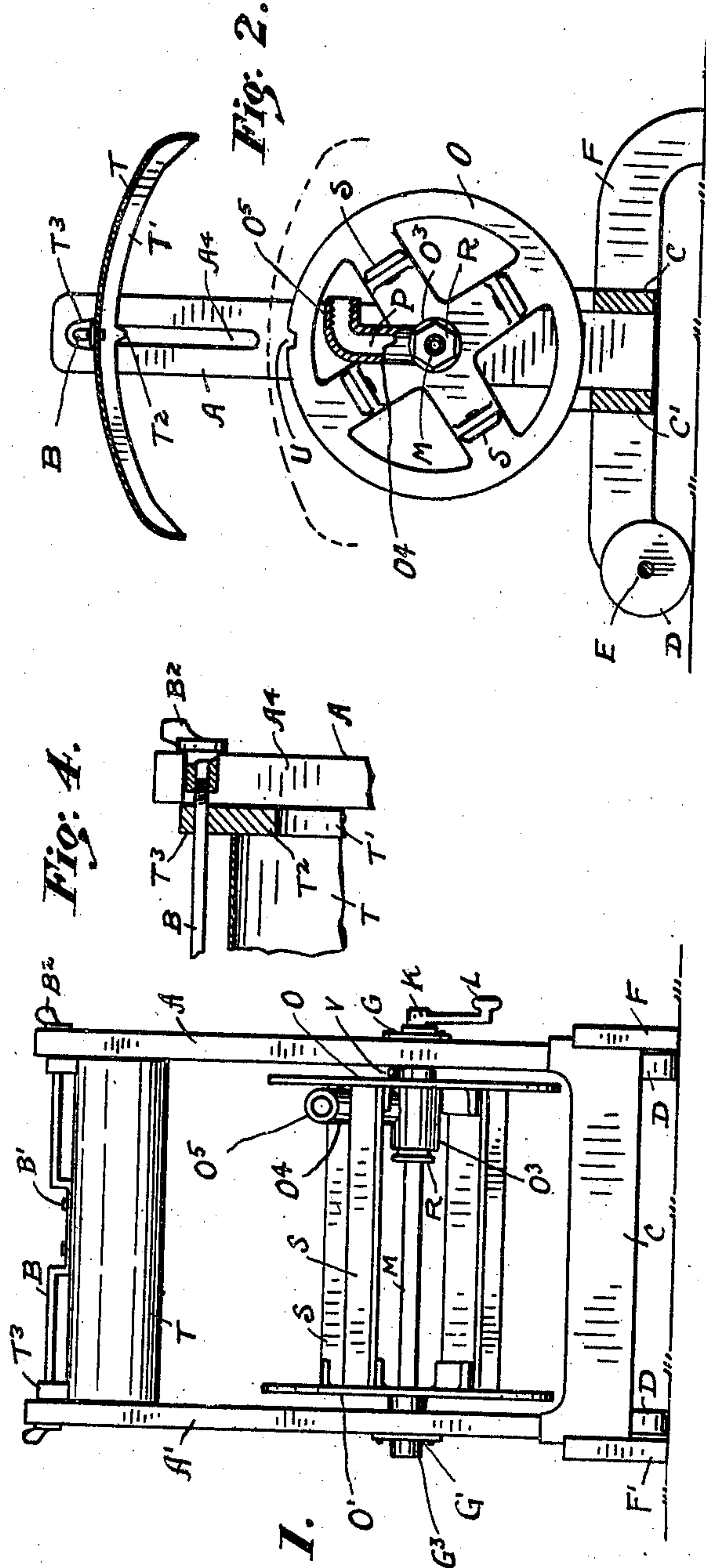


976,774.

A. P. BOLNER.
HOSE CARRIER.
APPLICATION FILED APR. 16, 1910.

Patented Nov. 22, 1910.



WITNESSES:
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Fig. 1.

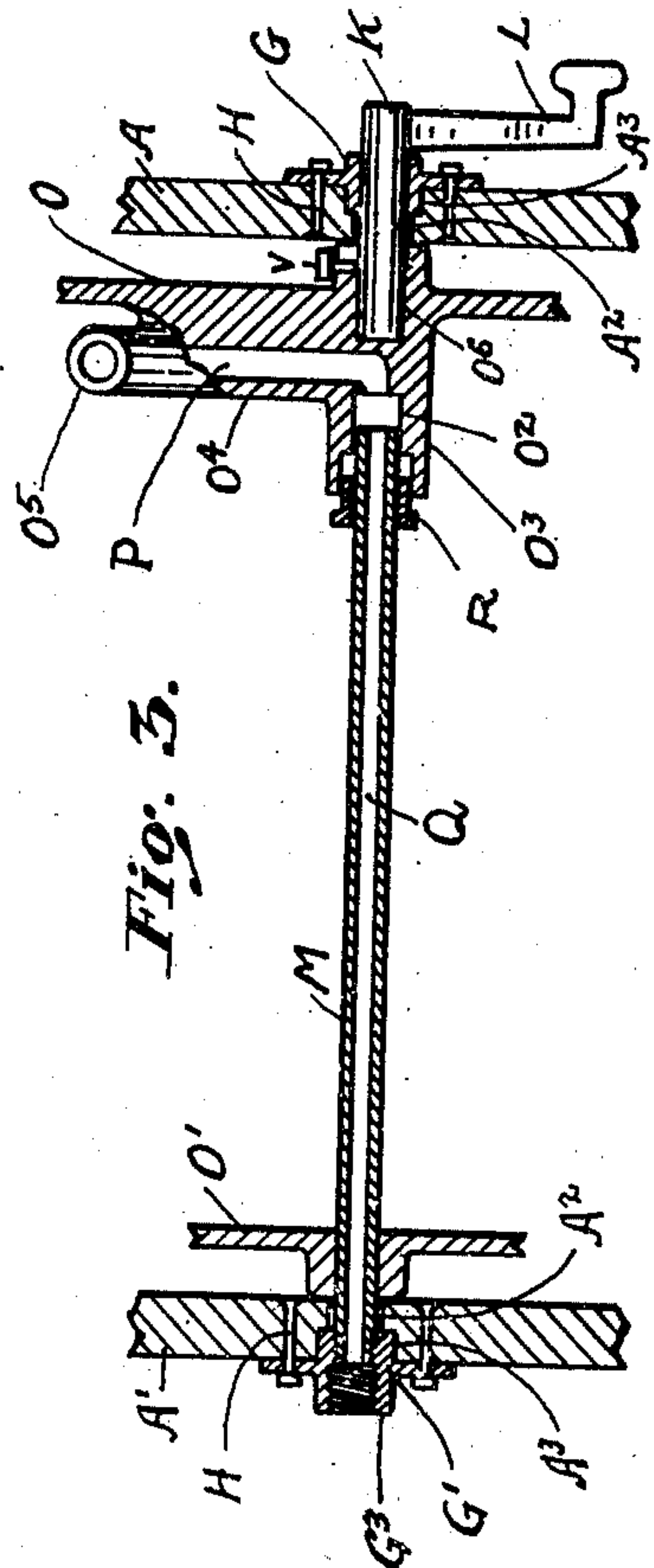


Fig. 3.

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HOSE-CARRIER.

976,774.

Specification of Letters Patent.

Patented Nov. 22, 1910.

Application filed April 16, 1910. Serial No. 555,793.

To all whom it may concern:

Be it known that I, ABRAM P. BOLNER, a citizen of the United States, residing at Hartford City, in the county of Blackford and State of Indiana, have invented certain new and useful Improvements in Hose-Carriers, of which the following is a specification.

This invention relates to improvements in hose-carriers or water supply devices which include a reel in combination with which connections are so constructed and arranged that the flow of water may be received from the source of supply and will be delivered into the hose while it is retained on the reel.

The general objects of my invention are to provide a device of the character described that will be of simple construction and durable; and which will be portable, and easy to handle, and not liable to get out of repair. More specific purposes of this invention are to improve the details of construction whereby the device may be economically manufactured.

The objects of my invention are accomplished by the new combination, construction, and arrangement of parts described in this specification, defined in the appended claims, and illustrated in the accompanying drawings.

Similar characters of reference identify corresponding parts throughout the several views, in which,—

Figure 1 is an end view of my improved hose-carrier. Fig. 2 is a vertical central sectional view of Fig. 1. Fig. 3 is an enlarged central sectional view of my improved hose-carrier; the main portions of the frame and of the reel being broken away. Fig. 4 is an enlarged detached detailed view of the combination hood and top-brace.

The frame of my improved hose-carrier comprises the uprights A and A¹ sustained at a proper distance apart by the struts C and C¹. The base bars F and F¹ are connected securely to the bottoms of the uprights and to the ends of the struts. The wheels D are journaled on a transverse tie-rod E which has its ends connected to the base-bars. In each of the said uprights is provided a bore A² through which the axle member of the reel may be passed. The counter bores A³ will receive the bosses of

the flanged boxings G and G¹ and which boxings will be secured to the uprights by suitable screws or bolts H.

The boxing G has a bore in which is journaled the axle member K provided with the crank L. The boxing G¹ has the extension G³ of proper diameter and internally threaded to receive a standard hose connection. The hollow axle member M has its one end screwed securely into the threaded bore of the boxing G¹, and its other end is journaled in the smooth bore O² of the interiorly extended hub O³ of the reel-disk O. The opposite reel-disk designated as O¹ and having a suitable hub is mounted loosely on the axle member M as shown. Formed integrally with the hub O³ is the hollow radial extension O⁴ which has the head O⁵ of the form and disposed in the direction substantially as shown in Fig. 2 and Fig. 3. The hollow P of the said extension O⁴ communicates with the bore of the hub O³ and the hollow Q of the axle member M. The head O⁵ has its bore threaded to receive a standard hose connection. R designates a packing box carried by the hub O³ for effecting a water-tight connection between the axle member M and the hub O³.

The reel bars S are secured at their ends to lugs carried by the reel disks, and will sustain the latter in connection with each other and at such proper distance apart so as to form a substantial reel or drum upon which to wind the hose.

To provide means to engage the reel and to hold it against movement, and to brace the uprights A and A¹; and to effect a shelter for the hose retained on the reel is the purpose of the member arranged between the uprights, and having the connected parts as shown in Fig. 4 in detail. This member designated as the hood T consists of an arched metal sheet fastened to the ribs T¹. These ribs may be of wood and have the central lugs T³ through which extend the threaded ends of the handle bar B. This handle bar has its central portion bent so as to rest against the top surface and the bolts B¹ will hold same securely in engagement with the metal sheet. The body portions of the wing nuts B² will fit loosely in the slots A⁴ of the uprights, and the threaded bores of same will engage the threaded ends of the handle rod B, as plainly shown in Fig.

4. The width of the hood will measure the distance between the inner faces of the uprights. By tightening the wing nuts the hood will be held securely in position and the uprights will be braced and held securely against twisting or springing. Also the hood will be capable of being quickly moved from lowered to raised position. When the hood is lowered to the dotted line position as shown in Fig. 2, the tooth T^2 will engage a recess U in the peripheral edge of one of the reel disks and will hold the reel against rotary movement, and will at the same time provide an effective shelter for the hose that is retained thereon.

A hose-carrier constructed in accordance with my invention will be capable of economical construction in all of its parts, and assembling of same will be easy and simple. The complete device will be rugged and will be not liable to get out of repair, or condition. The frame which will include the uprights A and A^1 and the struts C and C^1 , the boxings G and G^1 , and the wheels D may be constructed complete before the operative parts are placed in position. The carrier is completed by assembling the parts in the manner as follows. The reel disk O having the plain end of the axle member M inserted into the hub O^3 the extreme length of the bore O^2 , (the reel disk O^1 being carried loosely on said axle member) is disposed to aligned position the threaded end of the axle member being inserted into the bore A^2 of the upright A^1 . The axle member K is then passed through the bore of the boxing G and inserted into the suitable bore O^6 of the reel disk, and is secured therein by a set screw V . The axle member M is then screwed securely into the boxing G^1 , and the ends of the reel bars S are secured to the inner faces of the reel disks. Packing inserted at the packing box R will prevent any escape of water in its flow through the hub O^3 , and at the same time will not hinder the free rotative movement on the end of the axle member M , of said hub. The hood is then disposed at horizontal position between the uprights A and A^1 with the threaded ends of the handle-bar B in the slots A^4 . With the tightening of the wing-nuts B^1 my improved hose carrier is complete. The entire device will have been easily and quickly put together and the complete structure will be rugged and substantial and will be capable of being easily handled and transported.

The mode of using my improved hose-carrier will be apparent. The end of the hose will be screwed to the head O^5 . By rotating the reel the hose will be wound onto the reel in the usual manner. With the lowering of the hood to the dotted line position in Fig. 2, the tooth T^2 will engage the notch U and the reel will be held against

rotative movement, and the hose will be sheltered; at the same time the wing-nuts having been tightened and the uprights drawn into tight engagement with the ends of the hood, the structure will be braced against twisting or distortion strains incident to rough or careless usage.

My improved hose-carrier will be connected to the water supply by having the end of a supply pipe or hose screwed into the bore of the extension G^3 . To permit of the unwinding of the hose carried by the reel, the hood is raised thereby disengaging the tooth T^2 from the notch U . After the desired length of hose has been paid out the reel may again be locked against movement by returning the hood to the lowered position.

What I claim as my invention and desire to secure by Letters Patent, is—

1. In a device of the kind described, the combination of a pair of supports, a hollow axle member having its one end secured in one of said supports, a hose reel having one of its disks journaled in the other support and provided with a central bore in which the inner end of the hollow axle member is journaled, there being a passageway in the body of the disk to communicate with the said bore and terminated at a point near the periphery of said reel and capable of receiving a hose connection, a hood member supported by and connecting the uprights and having a tooth to engage the said reel, and which hood member is capable of being supported at positions disengaged from said reel.

2. In a device of the kind described, the combination of a pair of supports having vertical slots therein, transverse struts and longitudinal base bars to sustain the uprights a proper distance apart at their bottoms and to form a base, a transverse hood member having a handle bar thereon provided with threaded ends that extend into the said slots, wing nuts having their body portions to engage said slots and which are screwed onto the ends of the handle bar, boxings secured to said uprights one of which boxings has a smooth bore and the other having the external portion of its bore threaded to receive a hose connection, a hollow axle member having its ends secured in the bore of the last named boxing, a hose reel having one of its disks journaled in the first named boxing and provided with a bore in which the inner end of the hollow axle member is journaled there being an extension formed integral with said disk and provided with a passageway to communicate with said bore, the end of said extension being threaded to receive a hose connection.

3. A hose-carrier of the kind described, comprising a hollow axle member, a boxing secured on its outer end and threaded to receive a hose connection, a reel disk carried

loosely on the said hollow axle member, a
second reel disk having an interiorly ex-
tended hub with a central bore in which the
inner end of the axle member is journaled,
5 and there being a radial extension having a
passageway to communicate with the said
bore and that is threaded at its end to re-
ceive a hose connection, a packing box to
form a water tight jointure of the said hol-
10 low axle member and the said bore, a boxing
having a smooth bore, an axle shaft jour-
naled in said boxing and secured to the cen-
ter of the said second reel disk, tie bars to
connect the said disks, a portable frame hav-
15 ing members in which the aforesaid boxings
are secured.

4. A hose-carrier of the kind described
comprising a hollow axle member, a boxing
secured on its outer end and threaded to re-
20 ceive a hose connection, a reel disk carried
loosely on the said hollow axle member, a
second reel disk having an interiorly ex-
tended hub provided with a central bore in

which the inner end of the axle member is
journaled, and there being a radial extension 25
having a passageway to communicate with
the said bore and that is threaded at its end
to receive a hose connection, a packing box
to form a water tight jointure of the said
hollow axle member and the said bore, a 30
boxing having a smooth bore, an axle shaft
journaled in said boxing and secured to the
center of said second reel disk, tie bars to
connect the said disks, a frame comprising
oppositely disposed uprights in which said 35
boxings are secured, a hood to shelter the reel
and to connect the uprights and having a
tooth to engage the said reel, said hood be-
ing capable of being sustained at raised or
lowered position, substantially as described. 40

In testimony whereof I affix my signature
in presence of two witnesses.

ABRAM P. BOLNER.

Witnesses:

CLARENCE J. BROWNE,
FELIX E. HALL.