Feb. 27, 1940. H. C. SOMMER 2,191,973

HOSE RETRIEVER

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Fig.1.

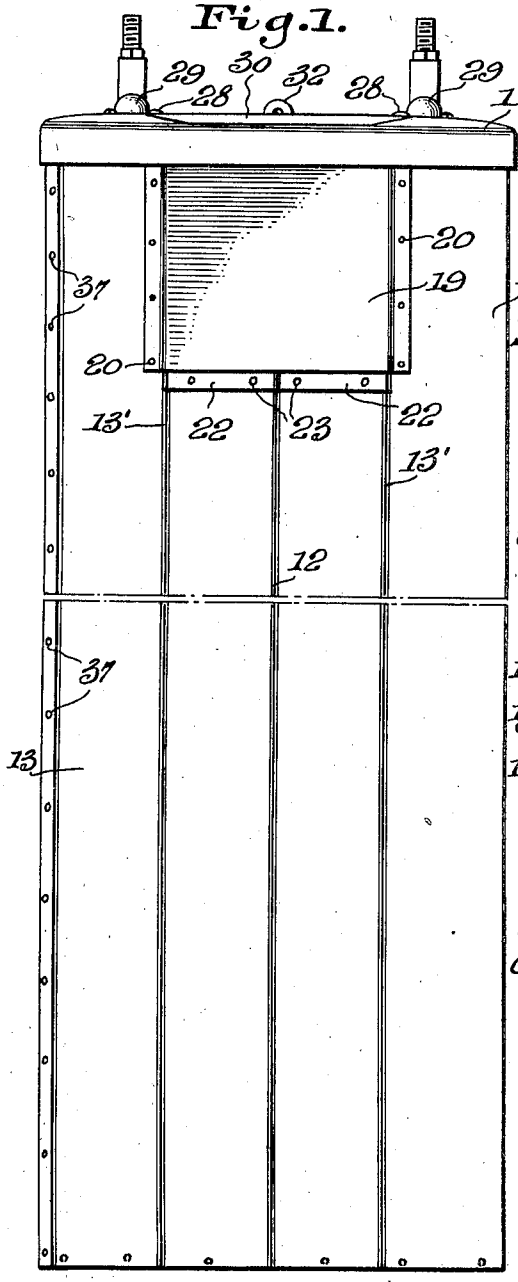


Fig.2.

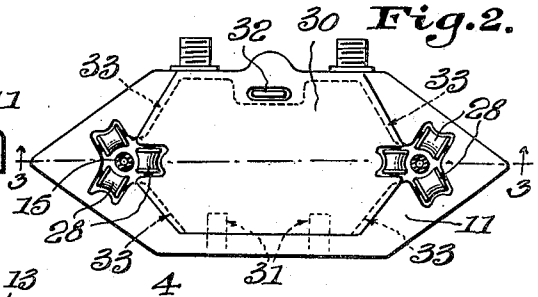
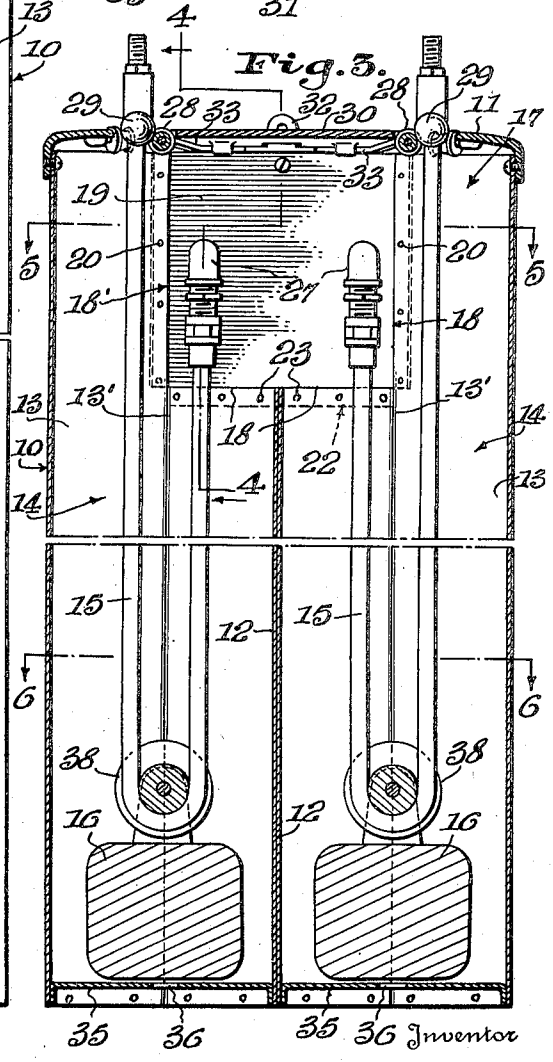


Fig.3.



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Fig. 4.

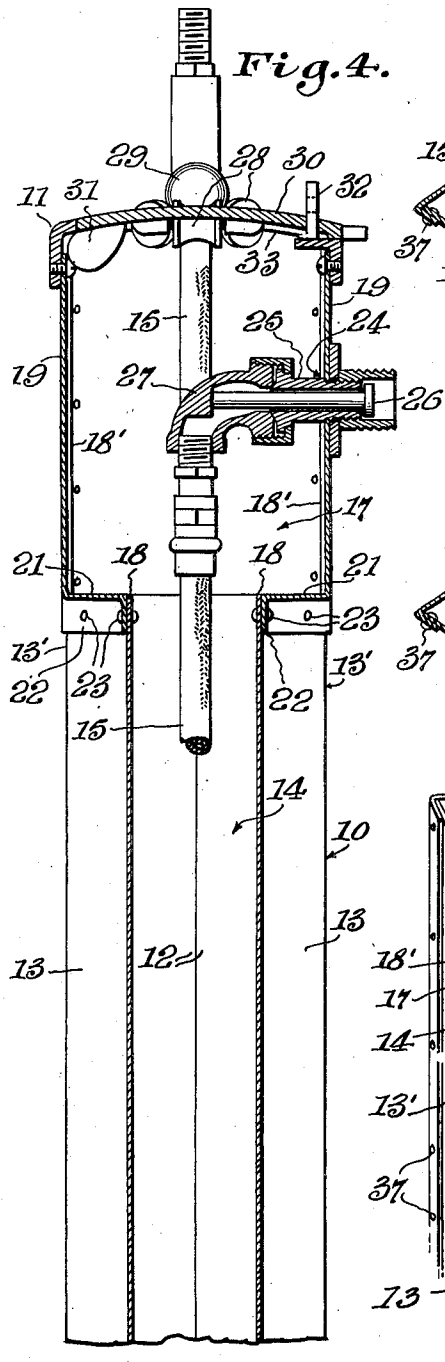


Fig. 5.

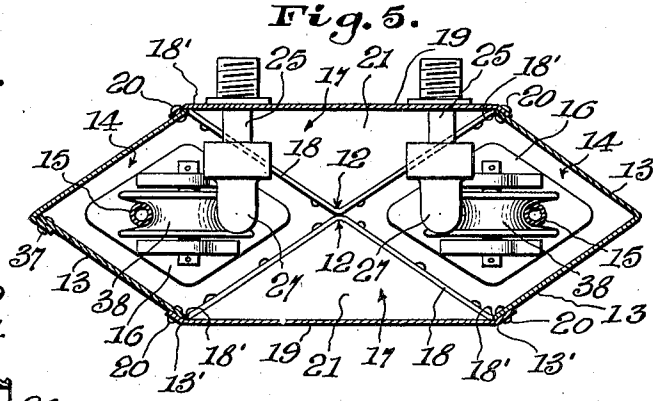
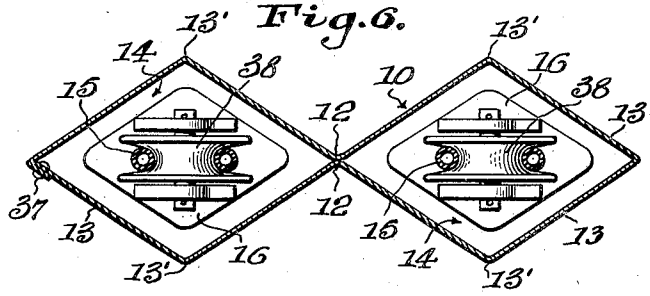


Fig. 6.



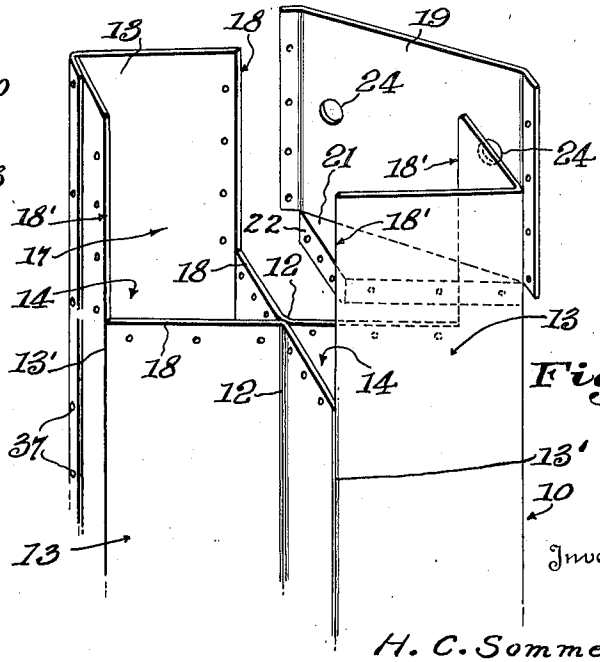


Fig. 7.

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UNITED STATES PATENT OFFICE

2,191,973

HOSE RETRIEVER

Herman C. Sommer, Los Angeles, Calif.

Application May 9, 1939, Serial No. 272,717

1 Claim. (Cl. 242—47.5)

The invention relates to devices used primarily at automobile service stations and garages for normally holding tire inflation hoses and/or radiator filling hoses in retracted positions, for permitting easy withdrawal thereof for use and for again retrieving or retracting the same after use.

The principal object of the invention is to provide a simple, inexpensive, easily manufactured, durable and effective casing structure for a device of the class in question, well adapted for accommodating a plurality of hoses (preferably one air and one water) and their retrieving means, and well adapted also for completely housing said hoses and the usual bibs or the like thereof whenever the service station or the like is not open for business.

A further object is to provide an improved hose retriever of the type having two hoses and retrieving weights therefor, of such construction that rotation of the weights and consequent twisting of the hoses, cannot occur.

With the foregoing in view, the invention resides in the novel subject matter hereinafter described and claimed, description being accomplished by reference to the accompanying drawings.

Figure 1 is a side elevation.

Figure 2 is an upper end view.

Figure 3 is a vertical sectional view on line 3—3 of Figure 2.

Figure 4 is a vertical section on line 4—4 of Figure 3.

Figures 5 and 6 are horizontal sections on lines 5—5 and 6—6 of Figure 3.

Figure 7 is a fragmentary disassembled perspective view.

A preferred construction has been illustrated and will be rather specifically described, with the understanding, however, that within the scope of the invention as claimed, variations may be made.

A relatively tall and slender casing 10 is provided to be set into the ground, said casing being preferably about nine feet long, eleven and a half inches from edge to edge, and four and one-half inches wide. Sheet metal, preferably galvanized, may well be employed for all portions of the casing except the cap 11 which is preferably of cast iron.

The two opposed side walls of the casing 10 are each provided with an inwardly projecting centrally disposed longitudinally extending corrugation 12 and with two outwardly projecting longitudinal corrugations 13 at opposite sides of said inwardly projecting corrugation 12. The two corrugations 12 of the opposed walls preferably abut each other and cooperate in vertically dividing the casing 10 into two wells 14 for the two hoses 15 and their retrieving weights 16, and in the present disclosure, the corrugations 12 and 13 are of such angular form that a double-diamond shape, in horizontal section, is imparted to the casing, giving each well 14 a diamond shape. Thus, by similarly shaping the weights 16, they are held against turning within the wells and consequently twisting of the hose loops which extend into said wells, is prevented. The upper portion of the casing 10 is preferably non-divided to provide a storage space 17 in which the terminals of the hoses 15 and the usual bibs or the like thereon, may be housed whenever the service station or the like at which the device is installed, is not open for business. In order to provide a simple and effective way of providing the casing with the non-divided upper portion constituting the storage compartment 17, I preferably make use of the construction described below.

The opposed casing side walls are each formed with a notch 18 at the upper end thereof, the vertical edges 18' of these notches being disposed substantially on the ridges of the outwardly projecting corrugations 13. These notches thus terminate the inwardly projecting corrugation 12 a distance below the cap 11, preferably about five and one-fourth inches below said cap. Two vertical sheet metal plates 19 are spaced outwardly from the notches 18 and are secured to the corrugations 13 substantially along their ridges 13', rivets 20 being preferably used in securing said plates and corrugations together. The lower edges of the plates 19 are provided with horizontal flanges 21 of triangular form suitably secured to the outer sides of the corrugations 12 and the contiguous portions of the corrugations 13 along the lower edges of the notches 18. The flanges 21 are preferably provided with downwardly projecting flanges 22 riveted at 23 to the casing walls. One of the plates 19 is formed with two openings 24 through which suitable connections 25 pass for connecting the hoses 15 with the air and water lines, and it is preferable to include a self-closing valve 26 in each of the connections 25, said valves being normally held open but being self-closing under the pressure of the air or water if the fitting 27 should be broken by a severe jerk on the hose, occasioned for instance by an automobile driver driving his car away with the hose still connected with or caught upon the same.

The cap 11 is provided with appropriate roller guides 28 through which the free ends of the

hoses 15 extend to permit withdrawal of said hoses for use, the usual rubber ball stops 29 being provided on said hoses to prevent them from passing entirely through the guides 28 when retrieved. The cap 11, however, includes a removable door section 30 carrying parts of the roller guides 28, and when said door section 30 is removed, the hose terminals and the usual bibs or the like thereon, may be housed within the compartment 17, said door section 30 being then closed and suitably locked.

At one edge of the door section 30, I have illustrated two lugs 31 which underlie the adjacent portion of the cap 11 to hold said door section against upward movement. At the opposite edge of the door section, suitable provision 32 is made to facilitate locking with a conventional padlock. Suitable supporting ribs 33 are provided on the cap 11 to underlie the ends of the door section 30.

As the two inwardly projecting corrugations 12 are preferably welded or otherwise secured together, to generally stiffen and reinforce the casing, the casing bottom is preferably formed from two separate diamond-shaped sections 35 riveted or welded in place, said sections having appropriate drain openings 36 to prevent accumulation of water in the casing, should any leak into the same. The entire vertical wall portion of the casing may well be formed from a single piece of sheet metal with its edges riveted or otherwise secured together, as indicated at 37.

The weights 16 are, of course, provided with apropriate sheaves 38 engaged with the loops of the hoses 15 depending into the two wells 14, each sheave being preferably, although not necessarily porcelain enameled.

From the foregoing, taken in connection with the accompanying drawings, it will be seen that novel and advantageous provision has been made for carrying out the objects of the invention. While preferred details have been disclosed, attention is again invited to the possibility of making variations within the scope of the invention as claimed.

I claim:

In a hose retriever having two hoses and two vertically movable retrieving members therefor; a relatively tall and slender casing for said hoses and retrieving members, said casing having two opposed longitudinal side walls, each of said side walls being of zig-zag form in horizontal section to provide it with a central inwardly projecting longitudinal corrugation and with two outwardly projecting longitudinal corrugations at opposite sides of said central inwardly projecting corrugation, the two central inwardly projecting corrugations cooperating in vertically dividing the casing into two separate vertical wells for said hoses and retrieving members; the upper end of each of said side walls having a notch at which the central inwardly projecting corrugation terminates, said notch having vertical edges disposed substantially along the ridges of the outwardly projecting corrugations, vertical plates spaced outwardly from said notches and secured to said outwardly projecting corrugations along said ridges thereof, and horizontal flanges projecting inwardly from the lower ends of said plates and secured to said side walls along the lower edges of said notches, providing the casing with a non-divided upper portion constituting a storage compartment, said casing having a door giving access to said compartment.

HERMAN C. SOMMER.