

Nov. 23, 1943.

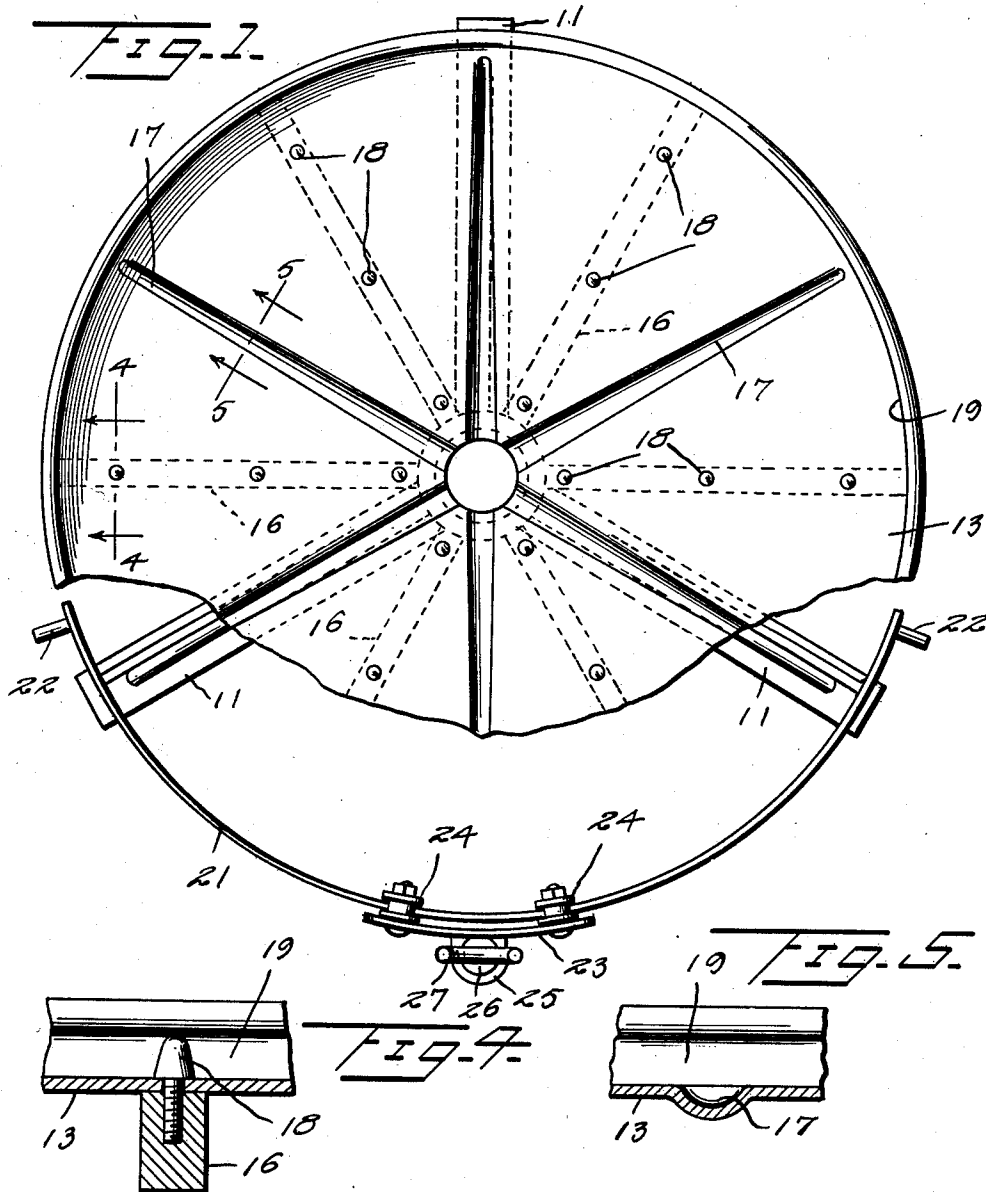
C. C. CROW ET AL

2,334,993

HOSE REEL

Filed Dec. 10, 1941

2 Sheets-Sheet 1



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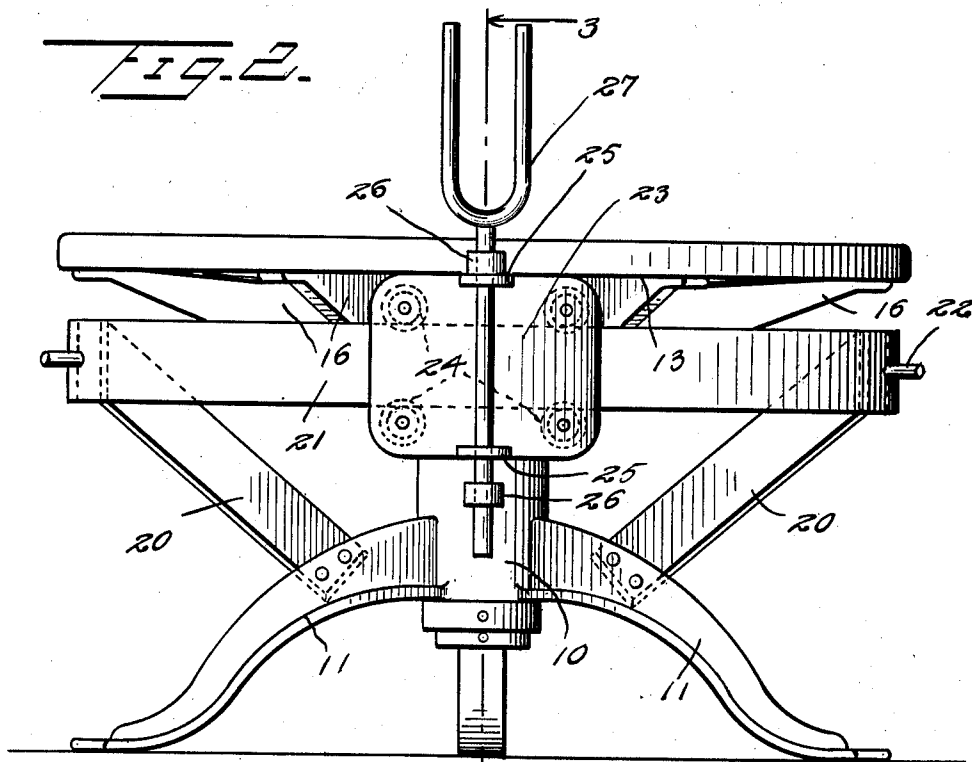
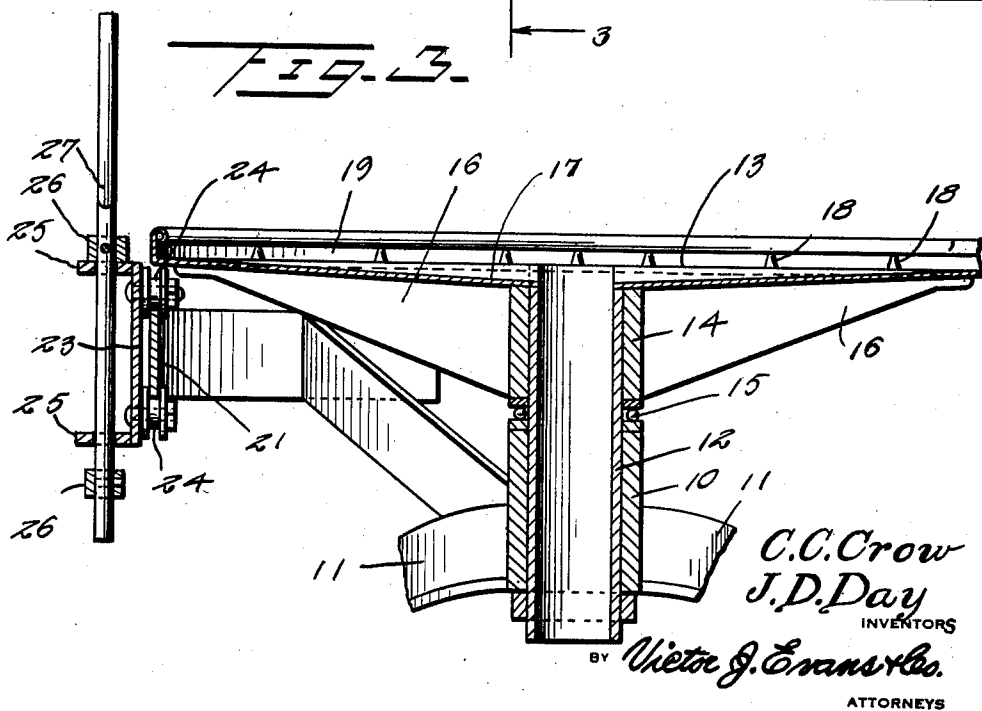
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UNITED STATES PATENT OFFICE

2,334,993

HOSE REEL

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Chattanooga, Tenn.

Application December 10, 1941; Serial No. 422,446

7 Claims. (Cl. 242-86)

This invention relates to hose reels, and more particularly to those provided with guide means for reeling and unreeling.

In the handling of fire hose, the problem of gathering up the hose after use and folding it into a fire truck has long been difficult. If the operation is carried out entirely by hand, it occupies the time of several men for a considerable period of time, whereas if an auxiliary reel is utilized the objection is raised that the hose is not entirely cleared of water, with deleterious effects. Also an auxiliary reel will not always prevent the coupling on the end of the hose from falling or dragging on the ground and injuring the threads. We realize that various attempts have been made to overcome these disadvantages but, so far as we are aware, no one has utilized the specific advantageous combination and arrangement of parts of the device embodied in our invention.

The object of this invention is to improve the handling of fire hose.

Another object is a suitable auxiliary reel to assist in loading a hose onto a fire truck.

Another object is to provide for good treatment of the hose by extracting all of the water therefrom and also protecting the coupling threads.

Another object is a reliable, easily operated device for accomplishing the above results.

These and other objects may be accomplished by our invention which embodies among its features a tripod base, a hollow shaft held by the base, a platform journaled on the shaft with a hole in its center, said platform having projecting pegs, a rim, and drain grooves in its face leading to said hole. Also braced on the base is a guide track having, movably mounted thereon, a fork adjacent the edge of the platform to act as a guide for the hose.

Other objects and features may become evident from the following disclosure when taken in connection with the accompanying drawings, in which:

Figure 1 is a top plan view of our device, broken away in part.

Figure 2 is a front elevation of the device.

Figure 3 is a section taken on line 3-3 of Figure 2.

Figure 4 is a cross-section taken on line 4-4 of Figure 1.

Figure 5 is a cross-section taken on line 5-5 of Figure 1.

Referring to the drawings in detail, there is a base 10 consisting of tripod legs 11 and carry-

ing a hollow shaft 12. Rotatably mounted on the shaft is a platform 13 having a sleeve 14 fitted over the shaft and carried by ball bearings 15. Brace webs 16 provide for reinforcement of the platform.

On the surface of the platform there are formed drain grooves 17 which slope down to the center and empty into the hollow shaft 12. Also positioned at various points on the face of the platform, as shown in Figure 1, are numerous pegs 18 to provide holding means for the hose. There is a rim 19 around the periphery of the platform.

Braced on the legs 11 of the base by brace members 20 is a guide track 21, with stops 22 at its ends, and a carriage 23, having grooved rollers 24, runs on the track. The carriage 23 has apertured lugs 25 on its face and mounted in these lugs and held by set screwed bosses 26 is a fork member 27. The fork extends up above the platform 13 to act as a guide for the hose.

In operation, the hose, when it is to be loaded on the truck, is first wound onto the platform 13, the pegs 18 preventing the hose from slipping relative to the platform. Then the free end of the hose is passed through the fork 27 and the operation of stowing the hose in the truck is begun. It will be noted that, as the hose is pulled, it will properly feed off the platform and does not require the services of a man to unkink and feed it. Also, by being coiled on the platform and also passing through the fork, the hose will be effectively cleared of water which runs down the drains 17 and into hollow shaft 12. When the hose has been unrolled the metallic coupling on its end will abut the fork 27 and be held there, thereby preventing falling or dragging on the ground and injuring the threads.

Although a preferred embodiment is described herein, we do not wish to be limited thereto but only by the scope of the appended claims.

What is claimed is:

1. In a device of the class described, a platform, drain means in the surface of the platform, a hollow shaft for rotatably mounting the platform on a base, said drain means emptying into said hollow shaft, and hose guiding means mounted adjacent the platform.

2. In a device of the class described, a platform, drain means in the surface of the platform, a hollow shaft for rotatably mounting the platform on a base, said drain means emptying into said hollow shaft, pegs on the surface of the platform, an upstanding rim around the periph-

ery of the platform, and hose guiding means mounted adjacent the platform.

3. In a device of the class described, a platform, drain means in the surface of the platform, means for horizontally and rotatably mounting the platform, hose guiding means adjacent the platform, and means for mounting the hose guiding means for motion in a circular path concentric to the platform.

4. In a device of the class described, a platform, drain means in the surface of the platform, means for rotatably mounting the platform on a base, a circular track mounted outside the periphery of the platform and concentric therewith, and a hose guiding means movably mounted on the track.

5. In a device of the class described, a platform, drain means in the surface of the platform, a hollow shaft for rotatably mounting the platform on a base, said drain means emptying into the shaft, hose guiding means adjacent the plat-

form, and means on the base for mounting the hose guiding means for motion in a circular path concentric to the platform.

6. In a device of the class described, a platform, a base, drain means in the surface of the platform, a hollow shaft for rotatably mounting the platform on the base, said drain means emptying into the shaft, a circular track mounted on the base around the platform and concentric therewith, a carriage movably mounted on the track, and a hose-guiding fork carried in said carriage.

7. In a device of the class described, comprising a platform, a base, a hollow shaft mounted on the base and rotatably supporting the platform, and radially extending inwardly inclined drain means in the surface of the platform and communicating with the hollow shaft.

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