

June 20, 1933.

N. A. TORNBLOM

1,914,654

MULTIPLE HOSE REEL

Filed Oct. 17, 1931

2 Sheets-Sheet 1

Fig. 2.

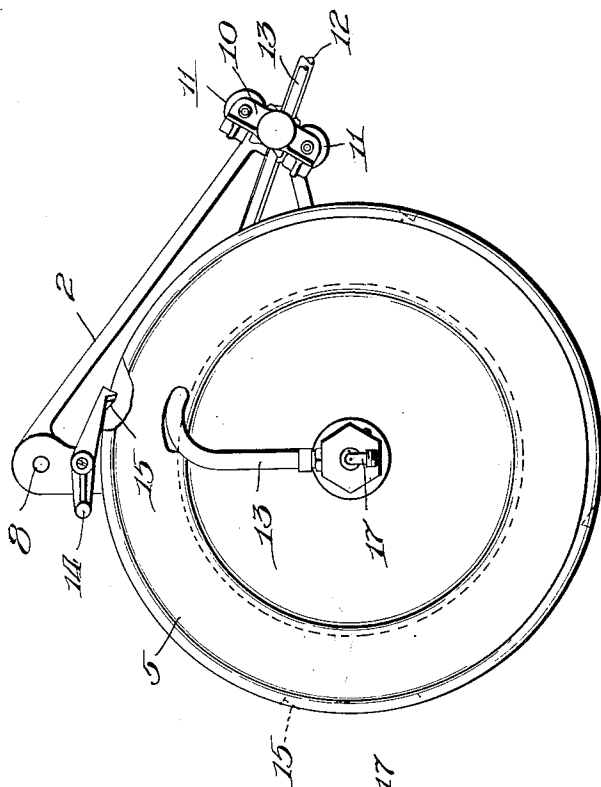
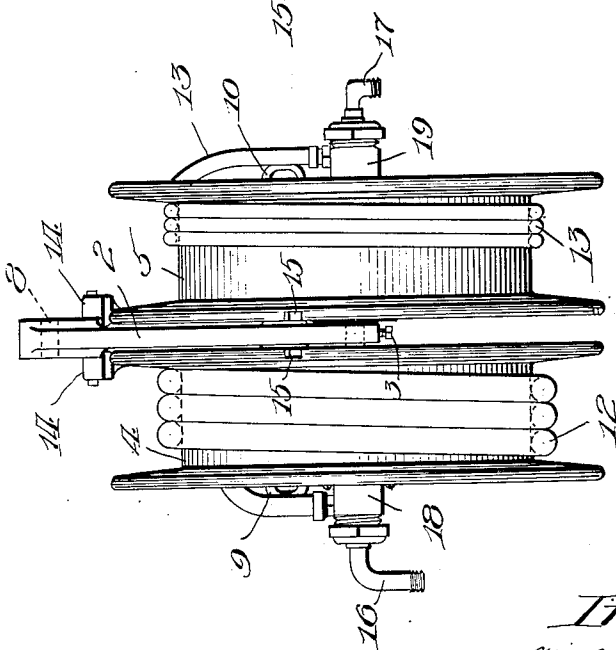


Fig. 1.



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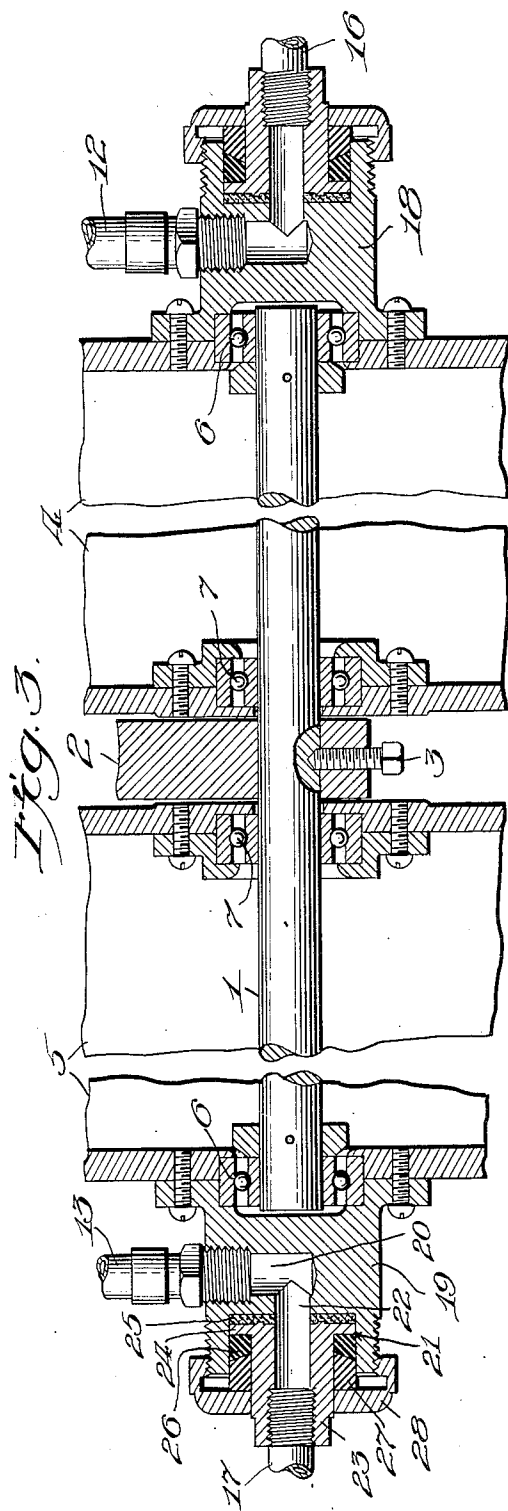
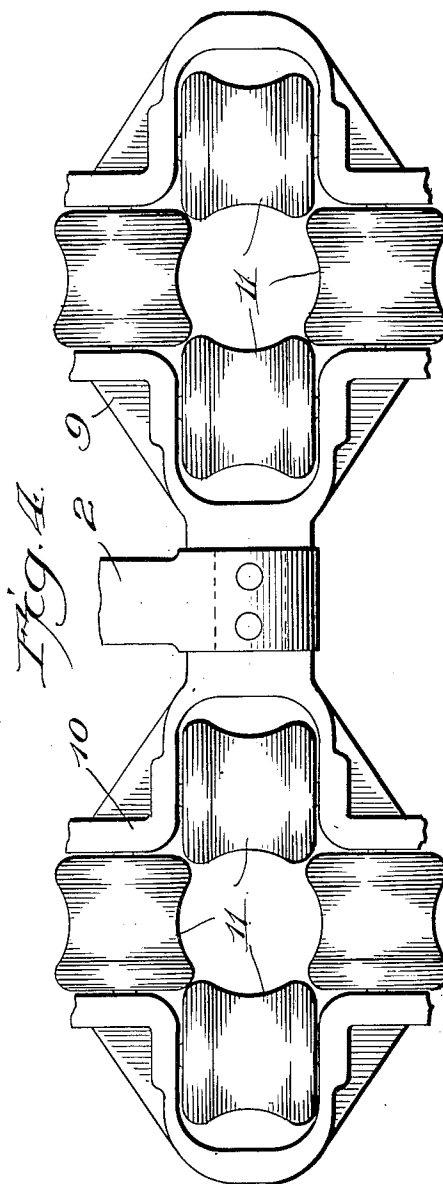
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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE

NILS A. TORNBLOM, OF CHICAGO, ILLINOIS, ASSIGNOR TO APPLETON ELECTRIC COMPANY, A CORPORATION OF ILLINOIS

MULTIPLE HOSE REEL

Application filed October 17, 1931. Serial No. 569,381.

The present invention has for its object to produce a simple, compact and reliable reel structure on which may be wound and from which may be paid out two separate lengths of hose or flexible conduits, each adapted to be wound up or unwound independently of the other and each having a simple and novel connection with a supply pipe.

The various features of novelty whereby my invention is characterized will hereinafter be pointed out with particularity in the claim; but, for a full understanding of my invention and of its objects and advantages, reference may be had to the following detailed description taken in connection with the accompanying drawings, wherein:

Figure 1 is what may be termed a rear view of one of my improved devices or machines; Fig. 2 is a side view; Fig. 3 is a central longitudinal section, on a much larger scale, only fragments of the device or machine being shown; and Fig. 4 is a front view, on the same scale as Fig. 3, of the compound guide for the hose or conduits.

Referring to the drawings, 1 represents a short horizontal shaft, shown as supported midway between its length by a flat triangular frame 2; the shaft passing through one corner of the frame and being held against rotation therein by a set screw 3. Mounted on and rotatable about the shaft independently of each other, on opposite sides of the frame, are two reels 4 and 5. Each reel is preferably mounted on a pair of ball bearings 6 and 7.

The second corner of the triangular frame projects above the reels and has an opening 8 extending therethrough to permit the structure as a whole to be hung up or suspended from a suitable support. The third corner of the frame extends forwardly beyond the front side of the reels and is there provided with a pair of brackets 9 and 10, each containing a nest of rollers 11. These rollers are so disposed that those of each group or nest surround a central opening lying in front of one of the reels and adapted to permit the passage of a hose wound on the correspond-

ing reel and provide an anti-friction guide therefor.

On each reel is wound a hose, these being indicated at 12 and 13; the hose 12, for example, being adapted to deliver paint and the hose 13 being adapted to carry compressed air to be utilized in a suitable spray nozzle, not shown, to spray the paint.

On the upper end of the supporting frame are a pair of pawls 14, 14 adapted to drop into notches 15, 15 in the periphery of the adjacent flanges of the reels to prevent the reels from turning backward until the pawls are released.

Each hose is provided with a simple and novel connection to the corresponding supply conduit, which conduits are indicated at 16 and 17. These connections are made through hubs 18 and 19 on the outer-most ends of the reels, in alignment with and beyond the ends of the support shaft. Each hub has therein a passage 20 communicating with the adjacent end of the corresponding hose. In the outer end of each hub is a large, deep, central bore 21 communicating with the passage 20 by means of a short passage 22 coaxial with the hub. Into each bore 21 extends a sleeve 23 having on the inner end an annular flange 24 of the same diameter as the bore. Between the inner end of the sleeve, including the flange thereon, and the flat bottom of the bore or pocket 21, is a disk 25 of lead or the like, preferably interlocked with the sleeve so as to be rotatable therewith. Surrounding the sleeve, outwardly from the flange, but in contact with the flange, is a suitable packing 26, preferably a metallic packing. This packing is engaged by a follower 27 surrounding the sleeve and pressed inwardly by a nut or gland 28 screwed upon the hub. The conduit, 16 or 17, as the case may be, is screwed into the outer end of the sleeve 23. As the reels revolve, the sleeves 23 remain stationary, so that the supply conduits may be said to be connected to the delivery conduits through swivel joints which remain tight to prevent the escape of fluids while permitting the delivery conduits to be wound and unwound.

It will thus be seen that I have produced

a compound reel that is simple and compact, in which there is a single plain shaft, and which permits the conduit thereon to be supplied with fluids from stationary conduits through simple and reliable swivel joints or the reels themselves; the reels proper being supported on ball bearings so that very little effort is required to turn them to wind up and unwind the conduits carried thereby.

While I have illustrated and described with particularity only a single preferred form of my invention, I do not desire to be limited to the exact structural details thus illustrated and described; but intend to cover all forms and arrangements which come within the definitions of my invention constituting the appended claim.

I claim:

In combination, a horizontal shaft, two reels arranged side by side on the shaft near and rotatable independently of each other, a hanger extending down from above the reels between the same to the shaft and engaging the shaft to support the same, a hose wound on each reel, supply conduits, a swivel connection between the hose on each reel and the corresponding supply conduit, a member fixed to the hanger and projecting forwardly therefrom to a point below the top of and outwardly from the reels, and a guide for each hose on the outer end of said member.

In testimony whereof, I sign this specification.

NILS A. TORNBLOM.

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