

Feb. 16, 1932.

J. F. GORAN

1,844,934

HOSE REEL AND THE LIKE

Filed Aug. 16, 1927

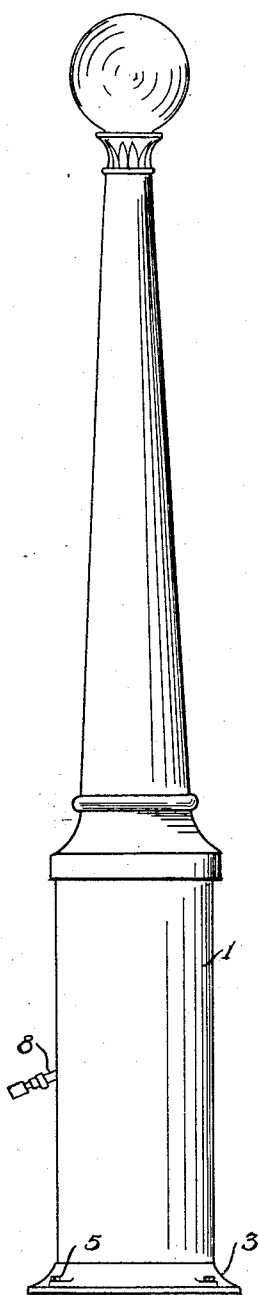


Fig. 1.

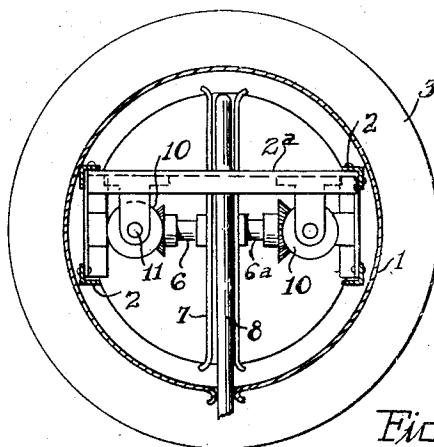


Fig. 3

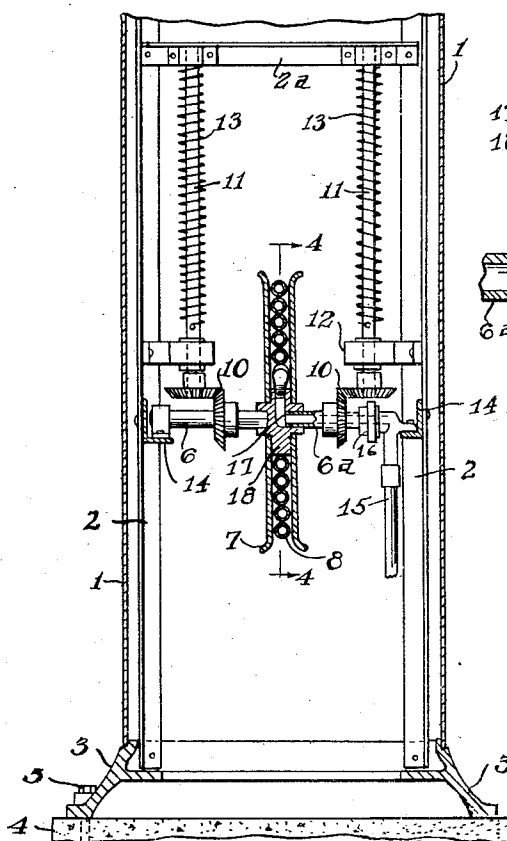


Fig. 2.

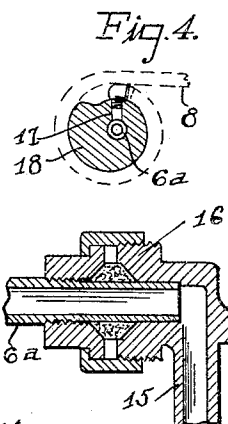
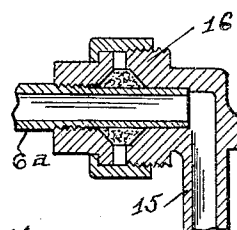


Fig. 5.



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UNITED STATES PATENT OFFICE

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HOSE REEL AND THE LIKE

Application filed August 16, 1927. Serial No. 213,333.

This invention relates to improvements in air hose reels.

In the accompanying drawings which serve for illustrating the invention:

Fig. 1 is a view in elevation of the air stand in which the reel is enclosed;

Fig. 2 is a sectional view of the reel;

Fig. 3 is a plan view of the reel;

Figs. 4-5 are detail sectional views of the air line connections.

The objects attained in the invention consist in a reel for retracting air hose, for inflating pneumatic tires, etc., after the hose has been used, the reel being simply constructed, designed for low cost production, not likely to get out of repair under conditions of ordinary use, of compact form, and adapted to be confined in a suitable casing or air stand.

The reel frame structure, as here shown, consists in opposite frame members 2, frame spacing member and tie bar 2a, the side members 2 being secured to a base 3, which serves for supporting the reel on a suitable base 4 by means of bolts 5.

Supported on side frames 2 by means of brackets 14 are opposite axially aligned shafts 6-6a, to which is secured a deep grooved sheave or pulley 7, upon which the hose 8 is wound when not extended for use. The shafts 6-6a are connected, on opposite sides of sheave 7, by bevel gears 10 to vertically extended shafts 11, which are supported at their upper ends in frame member 2a and at their lower ends in brackets 12, extended inward from the side frame members 2. Shafts 11 are tensioned, one inverse to the other, by springs 13, which act to rotate shafts 11-6-6a and sheave 7 for retracting the extended hose when the same is released after being used, the weight and friction of the dragging hose serving to effect compact winding of the hose on sheave 7. The normal tension of springs 13 being increased by drawing the hose outward, the spring tension is sufficient under all conditions to effect complete retraction and winding of the hose after each use.

The air line 15 is connected to the hose through the tubular shaft 6a, an air tight

coupling 16 and a pipe extension 17 in the hub 18 of sheave 7 serving for making the connection.

I claim as my invention:

1. A hose reel comprising a frame structure, a shaft supported rotatably in said frame, a sheave supported on said shaft for receiving the hose, shafts geared to the first named shaft on opposite sides of the sheave, the last named shafts being geared inversely one to the other and co-acting one with the other for rotating said first named shaft, and a spring coiled on each of said last named shafts to tension the same for winding the hose on said sheave.

2. An air hose reel including a frame structure comprising a base, a plurality of vertically extended frame members secured in said base, a head cross frame member joining opposite vertical frame members together, intermediate cross frame members interposed between opposite vertical frame members, a sheave for winding an air hose, supported rotatably on said intermediate cross-frame members, and a spring-tensioned shaft supported on the head cross-frame member and certain of said vertical frame members, and operably associated with said hose reel.

In testimony whereof, I affix my signature.

JOHN F. GORAN.

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