

Aug. 30, 1949.

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2,480,461

WIRE AND PAPER REEL

Filed March 14, 1947

2 Sheets-Sheet 1

Fig. 1. Fig. 2.

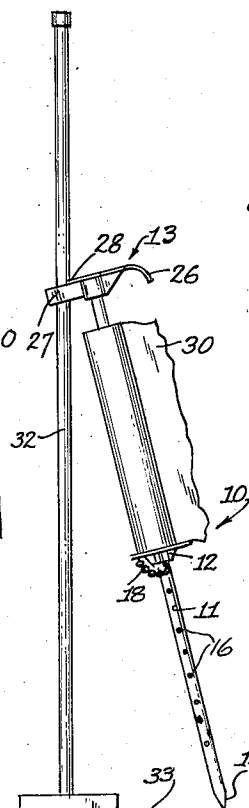
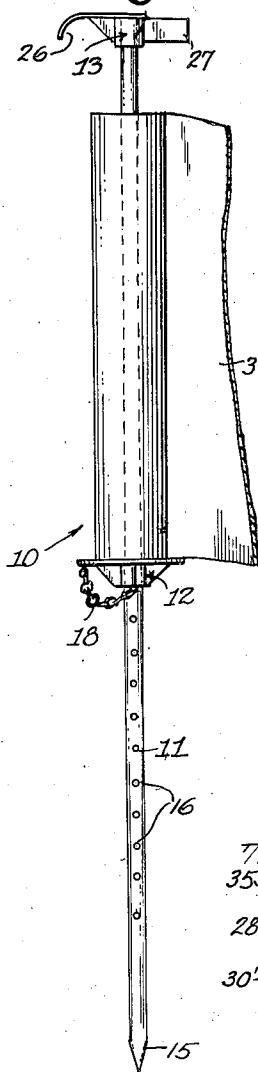


Fig. 3.

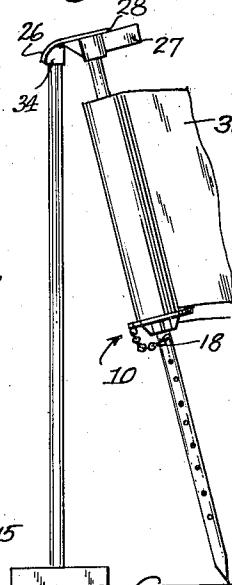


Fig. 4.

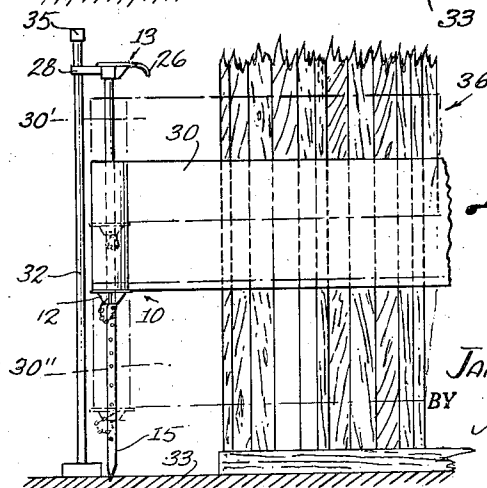
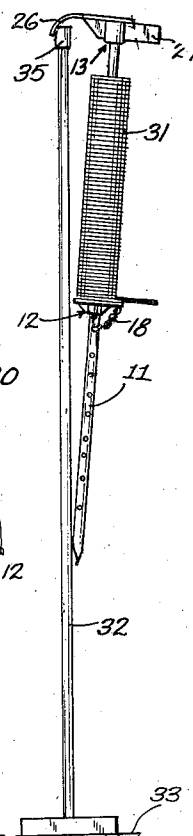


Fig. 12.

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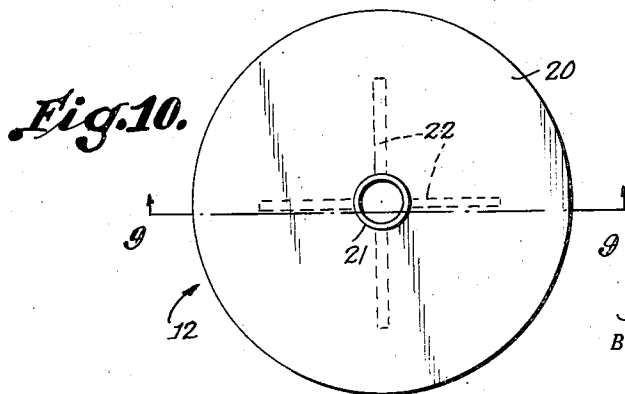
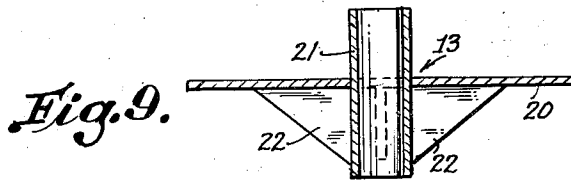
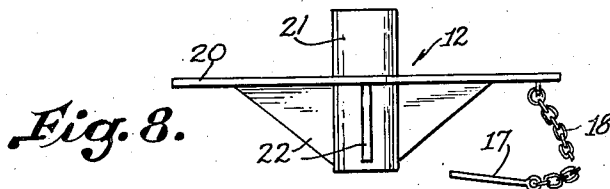
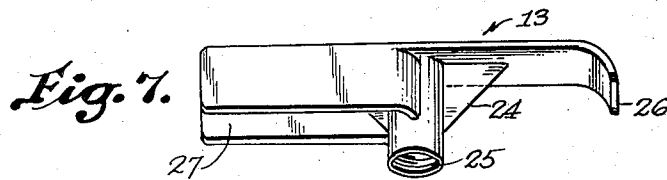
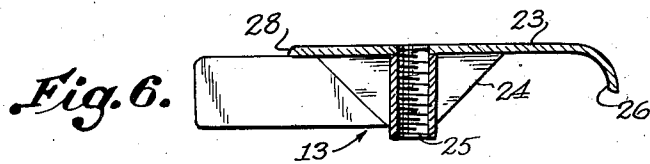
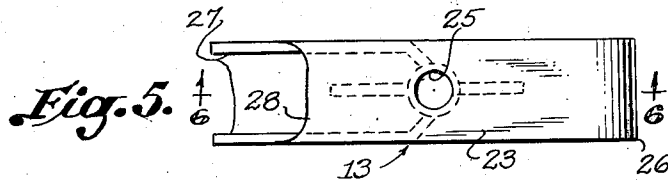
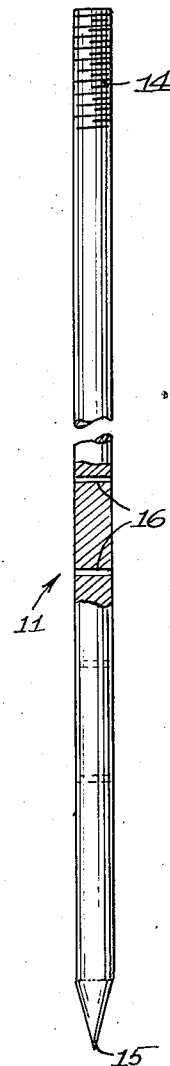


Fig. 11.



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UNITED STATES PATENT OFFICE

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WIRE AND PAPER REEL

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6 Claims. (Cl. 242—96)

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This invention relates to a wire and paper reel and has for an object to provide an improved reel particularly useful in holding rolls of building paper or wire in building construction to make the paper or wire very convenient for use.

It is an object of this invention to provide a reel having a roll supporting plate that is adjustable according to the size of the roll of wire or of building paper that is to be mounted thereon, and also according to the height or level at which it is to be used.

A further object of this invention is to provide an adjustable reel for holding the wire or paper in a very convenient position for unreeling the same during construction of the building.

A further object of this invention is to provide a reel adapted to cooperate with a building in various stages of construction for holding the wire or paper in very convenient position for dispensing the wire or paper at the proper height as needed during construction. When a roll of wire is used in construction work, the wire is very apt to get tangled up both while waiting to be used and while being unrolled for further use, and also is apt to get dirty and messy, causing both loss of wire and loss of workingmen's time. If a roll of building paper is laid on the floor or ground while being used, it gets dirty and messy, and accidentally tears off the roll very easily, necessitating the services of a workingman to unreel the roll as it is being drawn out for use, and even so, is apt to be torn accidentally between the roll and the wall to which it is being applied.

With this invention, the roll is mounted on the reel, adjusted to the proper height, and cooperates with the building according to the progress of the construction, and may be unreeled smoothly, without the services of a workingman at the roll, in substantially the same level that it is being applied, without danger or tearing due to being twisted between the roll and point of application.

A further object of this invention is to provide a wire or paper holding reel adapted to cooperate with the building construction for holding the reel in convenient dispensing position for use.

A further object of this invention is to provide a wire or paper dispensing reel that will cooperate with a vertical stud for holding the reel in sufficiently upright position for dispensing purposes, and likewise will cooperate with a horizontal beam or studding when the horizontal is close to a floor or ground support as well as when the horizontal is fairly high up, and away from the floor or ground.

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Other additional objects will more fully appear from the following description, and that the invention may be more fully understood, reference is had to the accompanying drawing forming a part of the present description and illustrating a preferred embodiment of the invention, in which:

Fig. 1 is an elevation plan view of this invention, with a roll of paper thereon.

Fig. 2 shows the reel in dispensing position cooperating with a vertical stud.

Fig. 3 shows the reel cooperating with a low horizontal beam or studding.

Fig. 4 shows the reel, with a roll of wire thereon, cooperating with a high horizontal beam or studding.

Fig. 5 is a top plan view of the reel supporting hook.

Fig. 6 is a sectional view on line 6—6 of Fig. 5.

Fig. 7 is a perspective view of Fig. 5.

Fig. 8 is a side plan view of the lower supporting plate for the reel.

Fig. 9 is a sectional view on line 9—9 of Fig. 10.

Fig. 10 is a top plan view of Fig. 8.

Fig. 11 is a plan view, partly in section, of the reel pole, and

Fig. 12 is a view similar to Fig. 2, with the roll adjustably supported at various levels.

There is shown at 10 the wire and paper reel of this invention. This reel consists of three separable parts, the pole 11, shown separately in Fig. 11, the roll supporting plate 12, shown in Figs. 8, 9 and 10, and the reel supporting hook 13, shown in Figs. 5, 6 and 7, all cooperating together as shown in Figs. 1 to 4 inclusive.

The pole 11, of any suitable material such as wood, or wood preferably with metal capped ends, or entirely of metal, preferably a light metal, is threaded at 14 at its upper end and is sharpened at 15 at its lower end. Diametrically extending through the pole, at suitably spaced points, such as about six inches, are a number of bolt receiving holes 16.

The holes 16 are intended to selectively receive the bolt 17 secured on a chain 18 to the roll supporting plate 12 to support the plate 12 and the roll at whatever height may be desirable. This reel supporting plate 12 includes a flat, round disk 20 secured to and surrounding a sleeve 21 of a diameter to easily fit on the pole 11. A plurality of webs 22 extend between the disk 20 and the sleeve 21 to reinforce and support the disk on the sleeve, and, if not integrally cast therewith, may be welded or otherwise secured to both the disk and the webs.

The hook 13 consists of a flat sheet 23 that is

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secured, as by webs 24, to a threaded sleeve 25, the threads in the sleeve being cooperable with the threaded end 14 of pole 11. One end of sheet 23 is curved into a hooked end 26. On the other side of the threaded sleeve 25, the sheet 23 is wider and bent into a channel portion 27 and has its bight cut away at 28 to provide a U at one end. At its other end, the sides of the channel are partly cut away from the bight and bent inwardly toward the sleeve 25 and are welded or otherwise secured to the outside of the sleeve 25 and bottom of the sheet 23 to reinforce and help support the same.

In operation, the hook 13 is threadedly secured on the top threaded end 14 of the pole 11. Pole 11 is then placed through the hollow center of the paper roll 30 or wire roll 31, lying on a clean supporting surface. Next the plate 12 is passed over the sharpened end 15 of the pole 11, and adjusted to the proper position to support the roll at 30, 30' or 30'' as desired, and the bolt 17 on chain 18 is passed through the desired hole 16 depending on the width of the roll of wire or paper as well as on the height or level at which it is to be used.

As thus assembled, the reel is ready for use in dispensing the wire or paper therefrom. If the building is just begun, with only vertical studs 32 in place, as in Fig. 12, the reel 10 is leaned against the stud 32 with the sharp end 15 on the floor or ground 33, and the U 29 of hook 13 embraces the stud 32. The U is of such size as to just fit about a conventional stud, and hence, as thus supported, the reel remains firmly in position, yet can be removed very easily. As thus positioned, the paper 30, or the wire, may be unrolled as needed, leaving the roll in a plane and at a height so close to the plane of the wall being built on the studs 32 that there is practically no twisting and hence but very little tendency to tear accidentally.

If a sufficiently low horizontal beam 34 is already in place, the hook 13 may be reversed, and the hooked end 26 may be extended thereover, as shown in Fig. 3. When the height of the building has so progressed that the roll is needed at a height above the floor 33, greater than the length of the pole 11, the hooked end 26 may be hooked over a high horizontal beam 35, as shown in Fig. 4, with the lower end of the pole 11 merely touching against the wall.

Obviously, the reel may be mounted in any one of the three ways thus described as convenient, and the wire or the paper may be unrolled smoothly as needed without kinking or tearing, and without needing a workman in attendance at the roll during the dispensing operation.

While I have described in detail the particular embodiment of my invention illustrated in the accompanying drawings, it will, however, be understood that various of the principles of construction and operation which are exemplified by what is illustrated may be embodied in widely different mechanical constructions. The disclosure of the drawings and the particularity of the description are, therefore, not to be taken as indicative of the scope of the invention.

What is claimed is:

1. A dispensing reel for wire or paper rolls comprising a reel pole, a roll supporting plate concentrically and adjustably mounted on said pole and arranged to support a wire or paper roll about said pole as an axis, and a reel supporting member removably secured at the upper end of

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said pole arranged to support the reel against an upright.

2. A dispensing reel for wire or paper rolls comprising a reel pole, a roll supporting plate adjustably mounted on said pole, and a reel supporting member removably secured at the upper end of said pole, said roll supporting plate comprising a sleeve to fit about said pole, and a centrally apertured roll supporting disk on said sleeve fitting concentrically about said sleeve and arranged to support a wire or paper roll about said pole as an axis.

3. A dispensing reel for wire or paper rolls comprising a reel pole, a roll supporting plate adjustably mounted on said pole, and a reel supporting member detachably secured at one end of said pole, said pole being sharpened at one end and threaded at the other end, said roll supporting plate comprising a sleeve to fit about said pole, a roll supporting disk on said sleeve, said reel supporting member comprising a threaded sleeve adapted to cooperate with the threaded end of said pole, a flat sheet on said sleeve formed into a hook at one end and a U at the other end.

4. A dispensing reel for wire or paper rolls comprising a reel pole, a roll supporting plate adjustably mounted on said pole, and a reel supporting member detachably secured at the upper end of said pole, said pole being sharpened at one end and threaded at the other end, said pole having a plurality of spaced apart diametrically extending apertures therein, said roll supporting plate comprising a sleeve to fit concentrically about said pole, a centrally apertured roll supporting disk on said sleeve extending concentrically about said sleeve and arranged to support a wire or paper roll about said pole as an axis, reinforcing webs between said sleeve and said disk, and a bolt cooperating with a selected pole aperture to adjustably support said plate on said pole, said bolt being flexibly secured to said plate.

5. A dispensing reel for wire or paper rolls comprising a reel pole, a roll supporting plate adjustably mounted on said pole, and a reel supporting member detachably secured at one end of said pole, said pole being sharpened at one end and threaded at the other end, said pole having a plurality of spaced apart diametrically extending apertures therein, said roll supporting plate comprising a sleeve to fit about said pole, a roll supporting disk on said sleeve, and reinforcing webs between said sleeve and said disk and a bolt cooperating with a selected pole aperture to adjustably support said plate on said pole, said bolt being flexibly secured to said plate, said reel supporting member comprising a threaded sleeve adapted to cooperate with the threaded end of said pole, a flat sheet on said sleeve formed into a hook at one end and a U at the other end, said U being provided by the cutaway bight of a channel formed at said other end, and reinforcing web means between said sleeve and said sheet.

6. A dispensing reel for wire or paper rolls comprising a reel pole, a roll supporting plate adjustably mounted on said pole, and a reel supporting member detachably secured at one end of said pole, said pole being sharpened at one end and threaded at the other end, said pole having a plurality of spaced apart diametrically extending apertures therein, said reel supporting member comprising a threaded sleeve adapted to cooperate with the threaded end of said pole, a flat sheet on said sleeve formed into a hook at one end and a U at the other end, said U being provided

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with the cutaway bight of a channel formed at said other end, and reinforcing web means between said sleeve and said sheet.

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