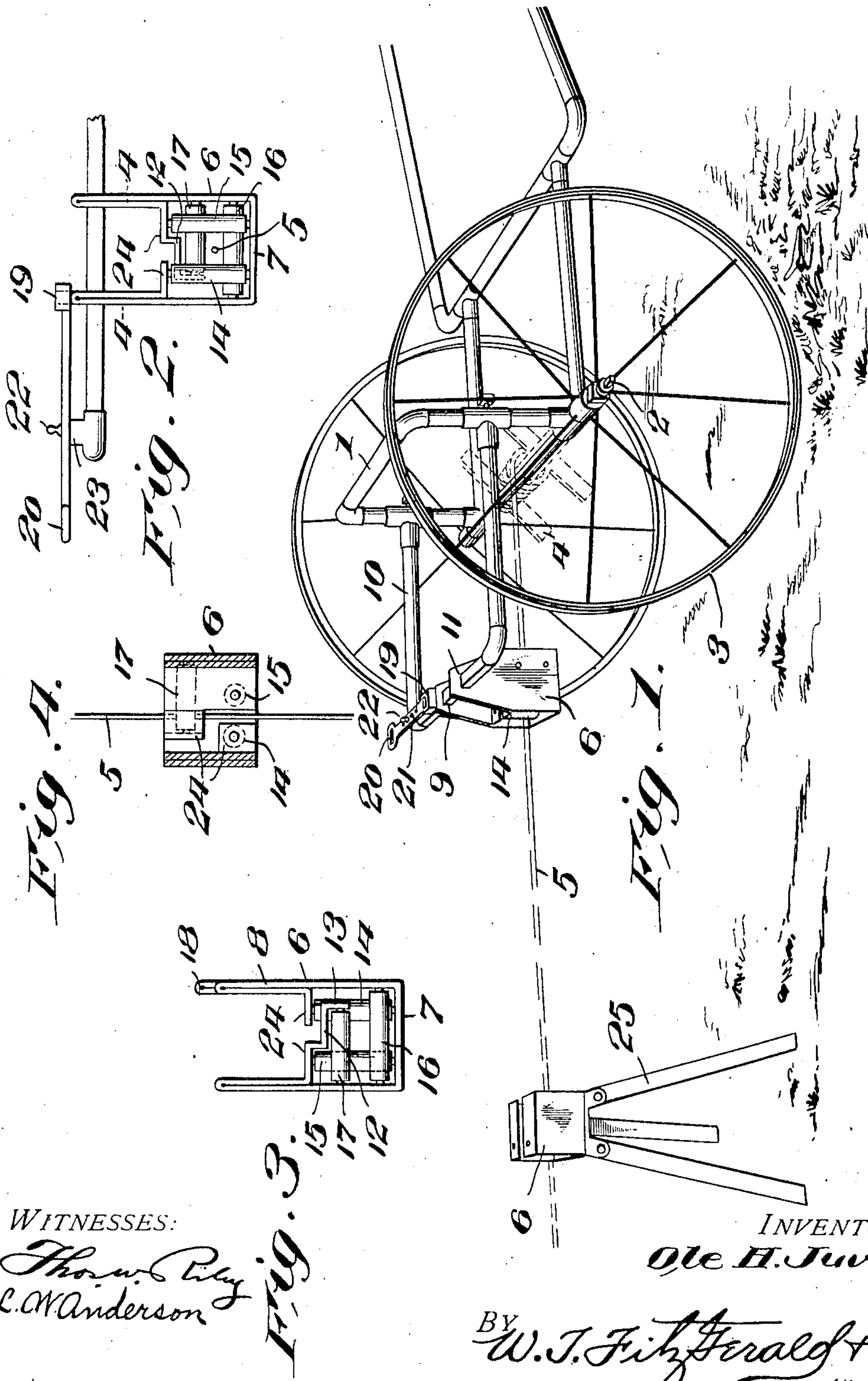


No. 843,214.

PATENTED FEB. 5, 1907.

O. H. JUVE.  
GUIDE FOR WIRE REELS.  
APPLICATION FILED NOV. 24, 1906.



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# UNITED STATES PATENT OFFICE.

OLE H. JUVE, OF DECORAH, IOWA.

## GUIDE FOR WIRE-REELS.

No. 843,214.

Specification of Letters Patent.

Patented Feb. 5, 1907.

Application filed November 24, 1906. Serial No. 344,848.

*To all whom it may concern:*

Be it known that I, OLE H. JUVE, a citizen of the United States, residing at Decorah, in the county of Winneshiek and State of Iowa, have invented certain new and useful Improvements in Guides for Wire-Reels; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to new and useful improvements in guides, and more particularly to that class adapted to be used for guiding wires upon a reel; and my object is to provide a device of this class which can be readily attached to any form of reel, but particularly to that form for which I made application for patent June 22, 1906, Serial No. 322,957.

A further object is to provide means for disposing the wire into engagement with the guide after the end of the wire has been secured to the reel.

A further object is to provide suitable means for shifting the guide laterally whereupon the wire will be equally wound upon the reel.

Other objects and advantages will be hereinafter referred to, and more particularly pointed out in the claims.

In the accompanying drawings, which are made a part of this application, Figure 1 is a perspective view of a reel and carrying-frame therefor, showing my improved guide mounted thereon. Fig. 2 is a front elevation of my improved guide and shifting mechanism therefor. Fig. 3 is a rear elevation of the guide removed from the supporting-frame; and Fig. 4 is a sectional view of the guide as seen from line 4 4, Fig. 2.

Referring to the drawings, in which similar reference-numerals designate corresponding parts throughout the several views, 1 indicates an angular frame, through which is disposed an axle 2, said axle having supporting-wheels 3 mounted at its opposite ends.

Disposed upon the axle 2 and between the ends of the angular frame 1 is a reel 4, upon which is adapted to be wound strands of wire 5. In order to evenly guide the wire upon the reel 4 as the same is being wound thereon, I provide a guiding mechanism 6, the frame 7 of which is formed from a single piece of metal, a portion of the metal forming the sides being extended upwardly to form

hangers 8, which are adapted to engage a bar 9, carried by arms 10, extending from the angular frame 1, the hangers 8 being provided with registering openings 11 to receive the bar, said openings and bar being preferably square, so that the guide member will be prevented from swinging on the bar.

The free ends of the metal forming the frame 7 are directed inwardly to form the upper edge of the frame, and the ends thereof are spaced apart, while one of the end sections is provided with an extension 12, which is provided at its free end with a depending ear 13.

The frame 7 is provided with guide-rollers 14, 15, 16, and 17, which are preferably grouped in pairs and spaced apart, the rollers 14 and 15 being vertically disposed and find bearings in the bottom and free end, respectively, of the frame, and at one edge thereof while the rollers 16 and 17 are disposed horizontally in the opposite edge of the frame, one end of the roller 17 finding a bearing in the ear 13, while the opposite end thereof and the ends of the roller 16 find bearings in the side walls of the frame, the object in making the roller 17 shorter than the roller 16 and mounting one end thereof in an ear 13 being to permit the wire to be disposed between the rollers after the end of the wire has been secured to the reel.

One of the hangers 8 is provided with a stem 18, which is adapted to extend through a socket 19 at one end of a shifting lever 20, said lever being directed parallel with a bar 9 and having a plurality of openings 21, through which is inserted a pin 22 and by which means the guide is shifted longitudinally upon the bar 9 and locked in its adjusted position, the pin extending through the lever and into engagement with a socket 23, formed on one of the arms 10, and by this construction it will be seen that the guide may be readily shifted from end to end of the reel, thereby directing the wire upon the reel in uniformity.

In operation the wire is first directed between the hangers 8 and secured to the reel 4, after which the wire is directed through the space between the free ends 24 of the frame 7, thus around the end of the roller 17, thereby disposing the wire between the two sets of rollers, and as the wire is wound upon the reel the guide may be shifted back and forth to evenly guide the wire upon the reel. When a strand of wire is being wound upon



the reel as when the same is stretched along the line of fence and in order to prevent the wire from dragging upon the ground, I mount a guide upon suitable standards 25, said guides being similar to the guide upon the reel-frame, with the exception of the hangers 8, and by placing several of the guides along the line of fence and disposing the wires between the rollers said wire is elevated above the ground and can be wound upon the reel with greater ease and rapidity than when the wire is allowed to drag.

What I claim is—

1. A guide of the class described comprising a frame formed of a continuous piece of metal and having its free ends spaced apart, rollers carried by said frame and in pairs, one pair being horizontally disposed and the other vertically disposed, an extension on one of said ends, a depending ear on said extension forming a bearing for one end of one of said horizontally-disposed rollers and means to support said guide.

2. In a guide for reels the combination with a reel, a supporting-frame therefor and a bar secured to said frame; of a guide comprising a frame formed of one continuous sec-

tion of material, hangers extending upwardly from the frame and integral therewith, said hangers having openings to receive said bar, the free ends of said frame being spaced apart, an extension on one of said ends, an ear on said extension, rollers disposed in pairs and rotatably mounted in said frame, and means to move said guide longitudinally of the bar.

3. The combination with a reel, a supporting-frame therefor and a bar on said frame; of a guide comprising a frame, hangers integral with said frame and extending upwardly therefrom, the free ends of said frame being spaced apart, rollers disposed in pairs and mounted in said frame, a stem on one of said hangers, a lever secured to said stem and means to engage said lever and hold the guide in its adjusted position.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

OLE H. JUVE.

Witnesses:

JOHN J. AKRE,  
A. E. THUNE.