

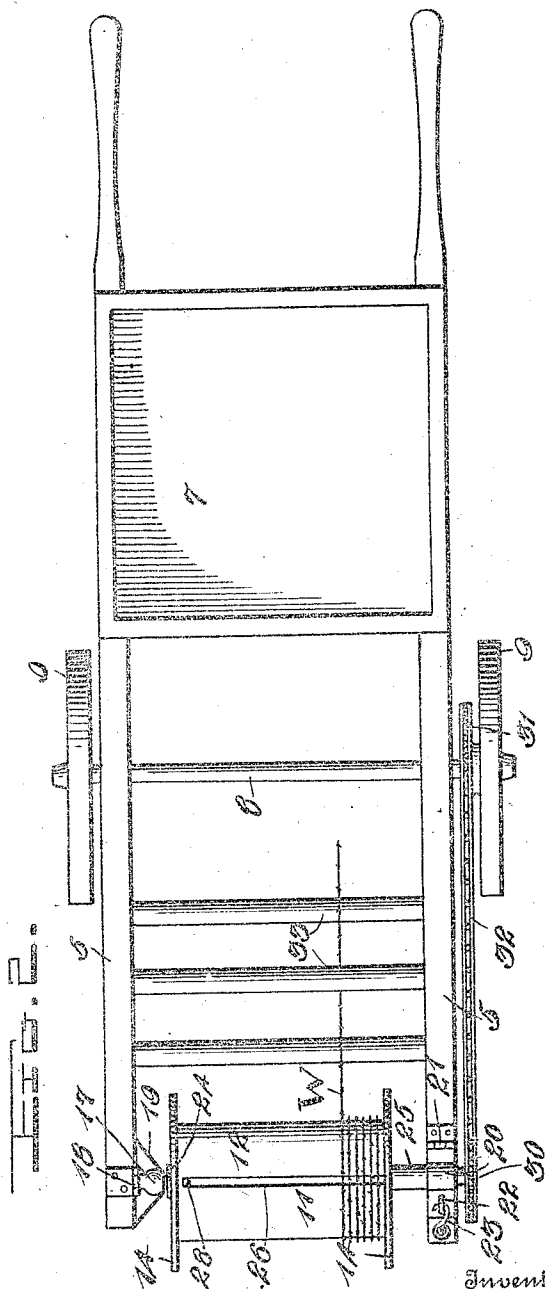
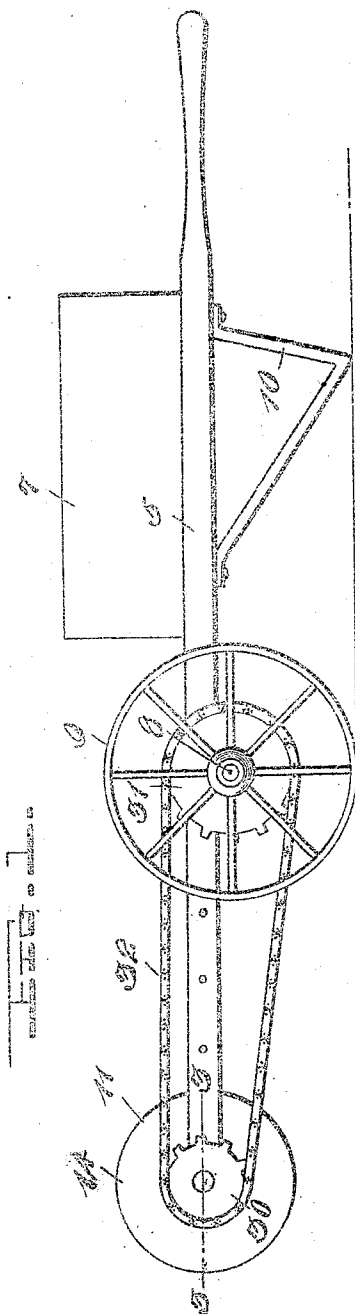
REEL.

APPLICATION FILED SEPT. 18, 1911.

Patented July 30, 1912.

2 SHEETS-SHEET 1.

1,033,906.



Inventor

W.H.Kennedy.

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W. H. KENNEDY.  
REEL.

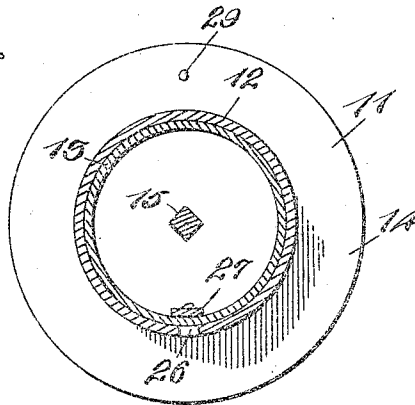
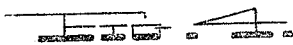
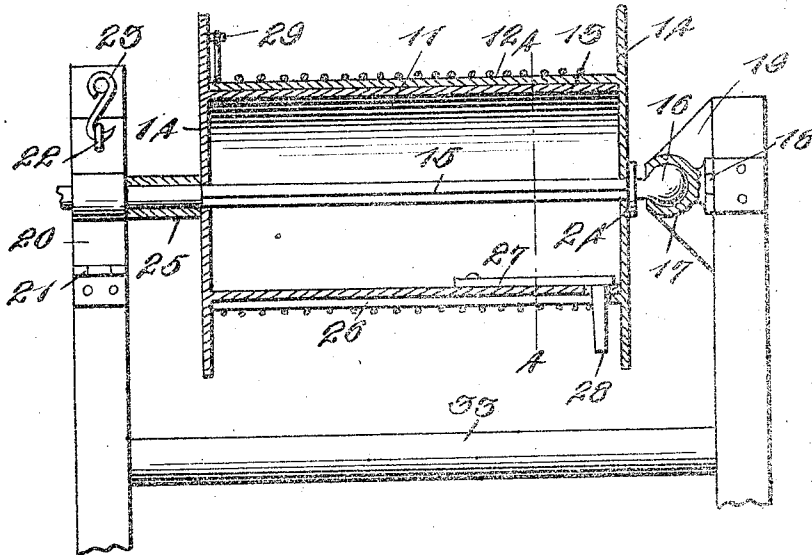
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FIG. 3.



Inventor

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# UNITED STATES PATENT OFFICE.

WILLIAM H. KENNEDY, OF NAPLES, TEXAS.

REEL.

1,033,906.

Specification of Letters Patent.

Patented July 30, 1912.

Application filed September 18, 1911. Serial No. 649,932.

*To all whom it may concern:*

Be it known that I, WILLIAM H. KENNEDY, a citizen of the United States, residing at Naples, in the county of Morris and State of Texas, have invented certain new and useful Improvements in Reels, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to reels and more particularly to a barb wire reel of that type which is mounted in a wheel supported frame and is adapted to wind up the wire in the movement of the machine over the ground.

The primary object of the present invention is to provide new and novel means for easily and quickly removing the roll of wire after the same has been wound upon the reel.

A further object of the invention resides in the provision of a reel consisting of two telescoping sections, means holding said sections in assembled relation and preventing their relative longitudinal movement, and means for mounting the reel in the frame of the machine whereby said sections may be readily separated and the roll of wire removed.

Still another object of the invention is to provide a device of the above character which is simple in construction, highly convenient and serviceable in practical use and may be manufactured at a small cost.

With the above and other objects in view, the invention consists of the novel features of construction, combination and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a side elevation of a reel embodying my improvements; Fig. 2 is a top plan view thereof; Fig. 3 is an enlarged longitudinal section through the reel; and Fig. 4 is a section taken on the line 4—4 of Fig. 3.

Referring in detail to the drawing 5 designates the parallel longitudinal side bars constituting the frame of the machine.

These bars terminate at their rear ends in suitable handles and upon said bars the box body 7 is mounted, said body being adapted to receive various tools which it is desired to convey from place to place. The side bars are mounted upon a wheel axle 8 upon each end of which a supporting wheel 9 is revolubly mounted. Rods 10 are fixed to the bars 5 beneath the body 7 to support said body when the machine is stationary.

Between the front ends of the side bars 5 my improved reel 11 is mounted. This reel, shown in detail in Fig. 3 consists of an outer section 12 and an inner section 13 which is telescopically engaged in said outer section. Each of the reel sections is provided upon one of its ends with a head 14 between which the wire is adapted to be wound upon the periphery of the outer section 12. Each of the heads 14 is centrally provided with a rectangular opening to receive a square shaft 15 upon one end of which a ball 16 is formed which is loosely disposed in a socket 17 hingedly secured to one of the side bars 5, as indicated at 18.

A support 19 is fixed to the bar 5 and extends inwardly thereof to normally support the socket 17 in a horizontal position. The other end of the shaft 15 is cylindrical in form and is removably seated in a bearing groove formed in the upper surface of the other of the side bars 5. A half bearing 20 is hinged at one end upon the bar 5 as indicated at 21 and is adapted to receive the upper portion of the shaft. The free end of this bearing plate is provided with an eye 22 to receive a hook 23 secured upon the frame bar. Upon the end of the shaft 15 adjacent to the ball 16, a collar 24 is formed which limits the longitudinal movement of the reel 11 in one direction. A sleeve 25 is arranged upon said shaft between the opposite end of the reel and the shaft bearing and prevents longitudinal movement of said reel in the other direction.

The reel section 12 is provided with a longitudinal slot 26 which extends substantially its entire length. To the inner surface of

the section 13 of the reel a leaf spring 27 is fixed at one of its ends. To the free end of this spring a stripping pin 28 is secured and is movable through an opening in the wall of the reel section 13. This pin also projects through the longitudinal slot 26 of the reel section 12 and serves to prevent relative rotative movement of said sections. To the inner face of the head 14 of the reel section 13 a stud 29 is secured to which one end of the wire W which is to be wound on the reel, is connected.

Upon the cylindrical end of the shaft 15 a sprocket 30 is rigidly fixed and a similar sprocket 31 is also secured upon the wheel axle 8. A drive chain 32 traverses these sprockets and rotates the reel 11 in the movement of the machine over the ground.

In order to hold the wire taut as it is wound upon the reel, I provide a plurality of transverse rollers 33 which are rotatably mounted at their ends in the side bars 5. As shown in Fig. 2 of the drawing, the wire passes over the rear roller, under the intermediate roller and over the front roller from which latter roller it is drawn and wound upon the reel.

From the above description it is thought that the construction and manner of use of my improved reel will be readily understood.

The end of the wire is first attached to the stud 29 and the operator pushes the machine or carrier in advance whereupon rotative movement is imparted to the reel and the wire taken up and wound thereon. After a sufficient quantity of wire has been wound upon the reel, the end of the wire is disconnected from the stud 29 and the bearing plate 20 is released so that the shaft 15 may be lifted and the sleeve 25 removed therefrom. The operator now grasps the head 14 of the reel section 13 and pulls said section out of the outer reel section 12, the stripping pin 28 engaging the end of the wire roll so that said roll is caused to move with the reel section 13 off of said outer section. When the shaft 15 is lifted, the socket member 17 swings upwardly from the hinge 18. After the reel section 13 has been removed, the operator forces the stripping pin 28 inwardly and grasps the spring plate 27 which is disposed adjacent to the open end of said reel section. The roll of wire may then be easily removed and the reel section replaced within the outer section 12. After replacing the shaft 15 in its bearing, the operation may be continued and the rest of the wire quickly wound.

My improved reel construction provides means for easily and quickly winding large quantities of fence wire and owing to the separable construction of the reel, the rolls may be quickly removed therefrom. The

device may also be readily assembled or disassembled and owing to the few parts employed it will be obvious that the reel is extremely strong and durable in practical use.

While I have shown and described the preferred construction and arrangement of the various elements, it will be understood that the invention is susceptible of a great many minor modifications without departing from the essential features or sacrificing any of the advantages thereof.

Having thus described the invention what is claimed is:—

1. The combination with a frame including parallel side bars, of a shaft bearing pivotally mounted upon one of said bars, a shaft supported at one end in said bearing, means for removably mounting the other end of the shaft upon the other of said frame bars, a reel arranged upon said shaft consisting of two sections each provided with a head on one end, one of said sections being slidably disposed within the other section, said latter section being provided with a longitudinal slot, said inner reel section being slidably mounted on the shaft and removable therefrom and means carried by said first named reel section normally disposed through the inner end of said slot whereby the material wound upon the outer section of the reel is simultaneously removed therefrom when the inner section is removed from the shaft.

2. A reel comprising an outer cylindrical section, an inner section telescopically engaged in said outer section, said outer section having a longitudinal slot therein, and a spring held stripping pin extending through the wall of the inner section and disposed in the slot of the outer section to hold said sections against relative rotation, said pin acting to strip the wire from the outer reel section when the inner section is removed therefrom.

3. A reel comprising an outer cylindrical section, an inner section telescopically engaged in said outer section, said outer section being provided with a longitudinal slot extending substantially its entire length, a leaf spring fixed to the inner surface of said inner section, and a stripping pin secured to the free end of said spring and movable through the wall of the inner reel section and extending through the slot of the outer reel section and beyond the periphery thereof, to strip the wire from the outer reel section when the inner section is removed therefrom.

4. A reel comprising an outer cylindrical section, an inner section telescopically engaged in said outer section, said reel sections each having a head formed on one of its ends, a stud fixed to the inner face of the

head of the inner reel section, a leaf spring  
secured at one end to the inner face of said  
inner reel section, said outer section of the  
reel having a longitudinal slot extending sub-  
stantially its entire length, and a stripping  
5 pin on the free end of said spring movable  
through the wall of the inner section and  
extending through said slot and beyond the  
periphery of the outer section, to strip the

wire from the outer reel section when the  
inner section is removed therefrom.

In testimony whereof I hereunto affix my  
signature in the presence of two witnesses.

WILLIAM H. KENNEDY.

Witnesses:

J. A. WOMMACK,

J. E. STEWART.