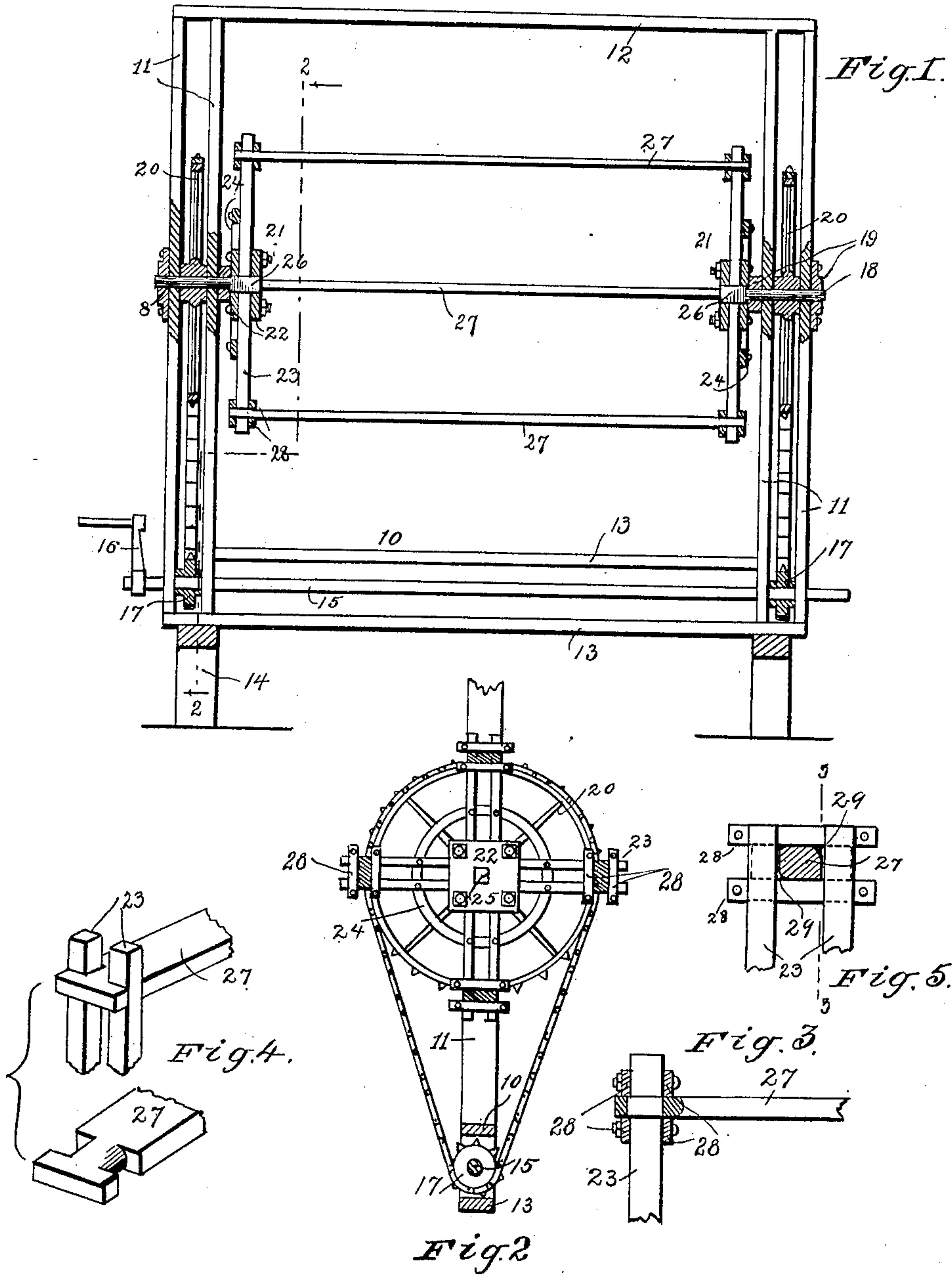


S. LEIGH.
 REEL FOR WIRE FENCE.
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Patented Dec. 15, 1908.



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UNITED STATES PATENT OFFICE.

SAMUEL LEIGH, OF WINFRED, SOUTH DAKOTA.

REEL FOR WIRE FENCE.

No. 906,725.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, SAMUEL LEIGH, a citizen of the United States, residing at Winfred, in the county of Lake and State of South Dakota, have invented certain new and useful Improvements in Reels for Wire Fence, of which the following is a specification.

This invention relates to a winding apparatus or reel designed for the purpose of winding up in the form of a spool woven wire fence, although it is to be understood that the device is not so limited in its application.

The device comprising the subject-matter of this invention is intended to be supported upon any suitable frame, or the like, and whereupon woven wire or a similar product may be rolled for the purpose of storage or transportation, and from which such roll may be removed. Again, the same roll or a different roll may be put upon the machine for the purpose of unwinding when desired.

For a full understanding of the invention, including its construction and characteristic advantages, reference is to be had to the following detail description and the accompanying drawings, in which

Figure 1 is a vertical longitudinal section of an apparatus constructed in accordance with this invention; Fig. 2 is a cross section on the line 2—2 of Fig. 1, parts of the frame being broken away; Fig. 3 is a detail on the line 3—3 of Fig. 5; Fig. 4 is a perspective detail, and Fig. 5 is a transverse detail of the connection between a slat and the spoke members of the reel.

Throughout the following description and on the several figures of the drawings, similar parts are referred to by like reference characters.

In the practical embodiment of this invention there is employed a substantial frame 10 of any suitable construction comprising pairs of vertical bars 11, one pair at each end of the frame, a cross piece 12 at the top, and bottom members 13. Said frame 10 may be supported on a base 14 if desired. Journaled near the bottom of the frame 10 and preferably between the bars 13 is a power shaft 15 to one end of which is connected a crank 16 which indicates any suitable means for rotating the shaft. Near the ends of said shaft 15 and between the pairs of vertical bars 11 are sprocket pinions 17. Journaled and supported in each pair of vertical bars 11 substantially midway between

the top and bottom of the frame 10 is a short trunnion 18. Suitable bearings 19 are provided for the inner and outer ends of each of said trunnions whereby the same is rigidly and firmly supported in place. A large sprocket wheel 20 is secured to each trunnion between the bars 11, and a sprocket chain connects each of said wheels with a corresponding pinion 17 above mentioned.

The reel proper comprises a pair of spiders or heads 21, one at each end secured to and operated by a trunnion 18. The spiders or heads may be of any construction suitable for the purposes of the device, but as illustrated each is made up substantially of a pair of hub plates 22, and a rigid annulus 24 surrounding the hub and connected to all of the members of the spokes. As a suitable means for securing the spider to its trunnion, the hub is provided with a square socket 25 which receives a correspondingly formed end 26 of the trunnion. Thus far described it will be seen that each spider is permanently secured by means of a trunnion 18 to its end of the frame. Extending longitudinally of the reel are a plurality of slats 27 whose ends are secured to the respective spoke members of the spiders. The nature of the means for securing the slats in place is such that the same may be adjusted radially of said spoke members or removed and replaced as desired. As a convenient means for thus securing the slats in place there are employed adjustable clamps 28, there being two of such clamps at each end of each slat. Each clamp comprises a pair of bars upon opposite sides of a pair of spider arms, said bars being connected by headed bolts. The slat at each end projects between the two members 23 of each spoke, and may if desired be provided with a T-head projecting on the outside of said spoke arms. Furthermore, as indicated in Fig. 5, that portion of the slat which is embraced by the spoke arms may be rounded on its edges as indicated at 29 for the purpose of allowing the slat to be turned edgewise in order to facilitate removal of the same from the spider arms.

When the machine is assembled the slats 27 will be secured in place, preferably all equally distant from the axis of the trunnions 18, being held in place by the clamps 28. The wire fence or other fabric being connected by any convenient means to one of the slats 27, and the power being applied to the crank 16 to rotate the reel, the said fabric

will be wound upon the reel, forming a spool. When this operation is completed and it is desired to remove such spool from the reel for the purpose of storage or transportation 5 the inner series of clamps 28 are loosened so as to permit them to be moved toward the trunnions 18. The slats then may be moved in a similar direction, turned through an angle of ninety degrees and slipped out of place so 10 that they may be removed from the machine. This being done the spool may be removed bodily from between the spiders, there being no continuous central shaft to prevent such operation. When desired to replace the 15 spool or another for the purpose of unwinding, the foregoing steps will be reversed.

It will be understood that the machine above described may be made of any suitable materials and in any desired proportions. 20 The details of construction furthermore may

be varied without departing from the spirit of the invention hereinafter claimed.

Having thus described the invention, what is claimed as new, is:

In a device of the character described, the 25 combination of a frame having pairs of bars at each end, a trunnion journaled in each pair of said bars, a wheel rigidly secured to each of said trunnions between its pair of bars, a reel spider secured to the inner end of 30 each trunnion, a plurality of slats extending from one spider to the other, means to detachably connect the slats to the spiders, and means to drive said wheels simultaneously.

In testimony whereof I affix my signature 35 in presence of two witnesses.

SAMUEL LEIGH.

Witnesses:

HENRY H. WELLING,
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