W. F. SCHULZ.

WIRE WINDER.

APPLICATION FILED JUNE 21, 1913.

**1,132,622.** **Patented Mar. 23, 1915.**

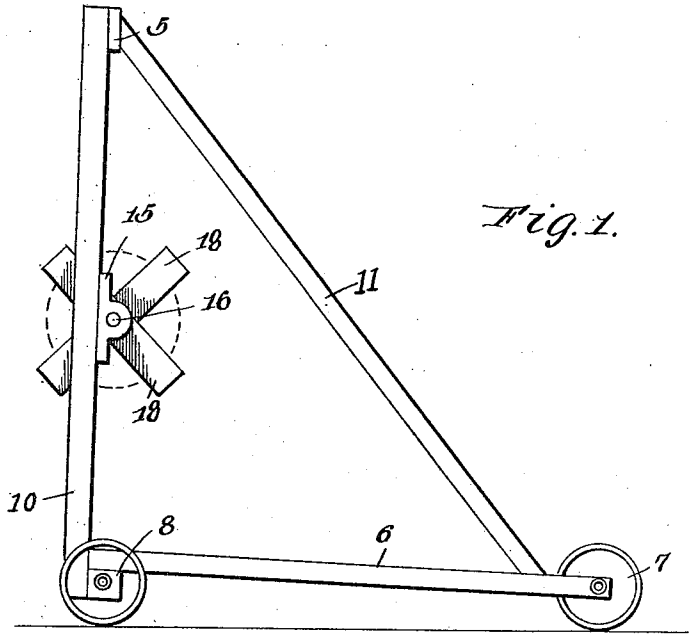



Fig. 1.

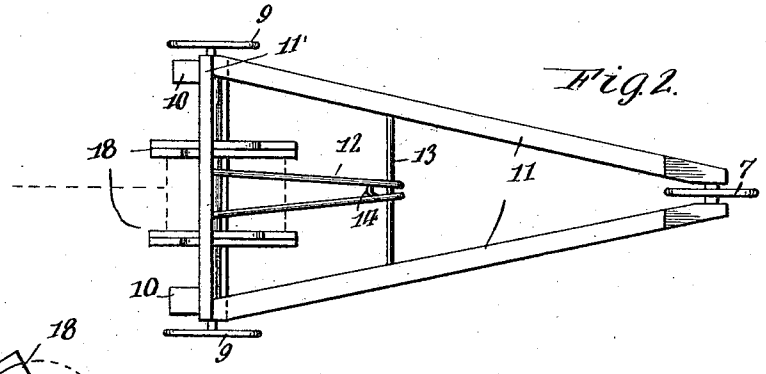



Fig. 2.

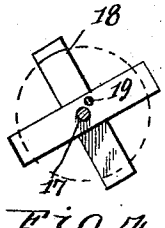



Fig. 4.

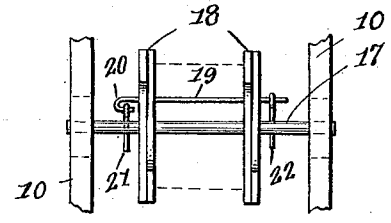



Fig. 3.

Witnesses

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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C

# UNITED STATES PATENT OFFICE.

WILLIAM F. SCHULZ, OF CAMPBELLSPORT, WISCONSIN.

## WIRE-WINDER.

1,132,622. Specification of Letters Patent. Patented Mar. 23, 1915.

Application filed June 21, 1913. Serial No. 775,082.

*To all whom it may concern:*

Be it known that I, WILLIAM F. SCHULZ, citizen of the United States, residing at Campbellsport, in the county of Fond du Lac and State of Wisconsin, have invented certain new and useful Improvements in Wire-Winders, of which the following is a specification.

This invention refers broadly to the class of winding and reeling and more particularly to a wire winder which is especially adapted for use in the building of wire fences, where a certain desirable progressive feed is necessary for facilitating the building of the fence.

The primary object of this invention resides in the provision of a device which may be conveniently used for either dispensing the wire or winding the same thereon, and one which may be readily transferred during the fence building operation.

Another object of the invention is the provision of a rotatable shaft on which the wire is wound, having associated therewith suitable wire retaining blocks so as to prevent the lateral spread of wire on the shaft, and will maintain the same in a compact form so that the same may be readily removed from the frame either with or without the wire when so desired.

Other objects as well as the nature, characteristic features and scope of my invention will be more readily understood from the following description taken in connection with the accompanying drawings and pointed out in the claims forming a part of this specification.

Referring to the drawings:—Figure 1 is side elevation of the device constructed in accordance with my invention; Fig. 2 is a plan view of the same; Fig. 3 is a front elevation of the wire winding shaft; and Fig. 4 is a side elevation of the same.

In the drawings wherein is shown the preferred form of my invention the numeral 5 represents a frame which in the present instance comprises a pair of horizontal base bars 6 which converge inwardly toward the rear and has journaled between the extreme ends thereof a roller 7, the forward ends thereof being in engagement with a base bar 8, which is provided with a roller 9 on each end thereof. Secured to the base bar 8 are a pair of vertical uprights 10 which have engagement at the upper ends thereof with the inclined bars 11 which have their lower ends secured to the upper face of the horizontal base elements 6 adjacent the roller 7. A suitable brace bar 11′ is arranged at the upper end of the vertical uprights 10 and has extending therefrom a brace hook 12 which is in engagement with a horizontal rod 13, the latter being positioned between the inclined bars 11 having the opposite ends thereof rigidly secured therein. The hook 12 is preferably formed from a strand of wire having the free ends thereof secured to the base bar 11′ and the midway portion thereof bent inwardly so as to provide a hook 14 which is in engagement with the rod 13 as above stated so as to hold the inclined bars 11 in engagement with the vertical uprights 10.

A bearing block 15 is arranged on each of the vertical uprights 10 approximately midway the ends thereof, each of the bearing blocks being provided with the usual eye 16, the said eyes being engaged by the opposite ends of a shaft 17. Wire retaining members 18 are arranged on the shaft 17, each of which comprises a pair of blocks the one of which is arranged transversely on the other and having extending therethrough an elongated hook 19 which extends in parallelism with the shaft 17, having a hook 20 formed on the one end thereof for engagement with an eye-bolt 21 which is disposed in an aperture in the shaft 17, and the opposite end of the hook 19 extending through an eye-bolt 22 which is likewise disposed in an aperture in the shaft 17. Upon reference to Fig. 3 it will be seen that when the shaft 17 is rotated through the medium of a hand crank or any other suitable means, the wire will be wound around the shaft 17 and the hook 19 between the members 18, said members revolving with the shaft 17 in view of the fact that the hook 19 which is carried thereby is secured thereto in a manner heretofore described.

In operation the wire is placed on the shaft 17 between the members 18, and is readily dispensed therefrom by merely exerting pressure on the one end of the wire so as to cause the shaft 17 to rotate thereby allowing the wire to be fed as desired in the building of fences or the like, and the frame in which the shaft 17 is mounted, readily transferred from place to place by the provision of rollers on the bottom thereof. The device may be likewise advantageously used for winding wire thereon, in which instance

the shaft 17 would be slightly elongated beyond one of the uprights 10, and squared so as to be adapted for the reception of a crank, however the main feature resides in the feeding of the wire as before pointed out for facilitating the building of fences or the like.

It will be understood that the above description and accompanying drawings comprehend only the general and preferred embodiment of my invention and that various minor changes in detail of construction, proportion and arrangement of the parts may be made within the scope of the appended claims and without sacrificing any of the advantages of my invention.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. A wire winder including a frame having a shaft rotatably mounted therein, independent wire retaining elements carried by said frame for preventing the displacement of the wire while being unwound, and means extending transversely through said elements and being detachably connected with said shaft whereby the elements and shaft are simultaneously actuated while unreeling the wire, the transverse movement of said elements on said shaft being limited.

2. A wire winder including a frame having a shaft revolubly mounted therein, wire retaining elements movably mounted on the shaft, a member extending through said element, and means detachably carried by said shaft adjacent said elements for detachable engagement with said member to produce simultaneous actuation of the wire retaining element and shaft.

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

WILLIAM F. SCHULZ.

Witnesses:
JOHN H. PAAS,
HERMAN J. PAAS.

**Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."**