M. ROSSMANN.

FENCE STRETCHER.

APPLICATION FILED MAY 16, 1913.

1,091,964. Patented Mar. 31, 1914.

Fig. 1.

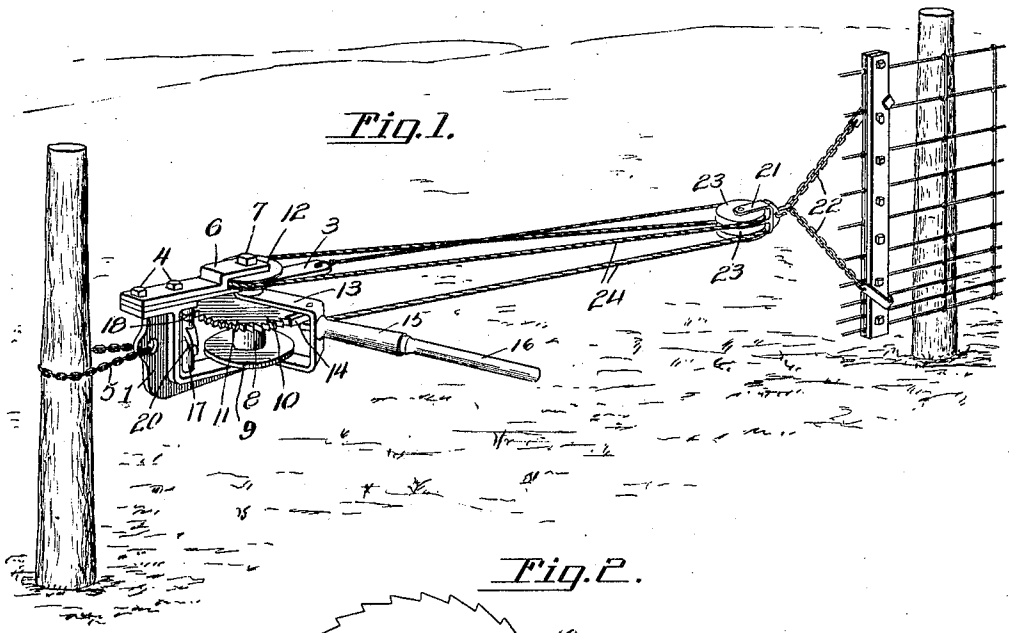


Fig. 2.

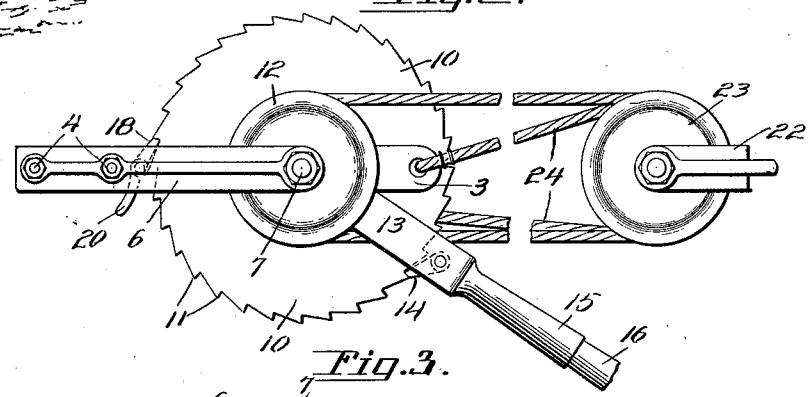
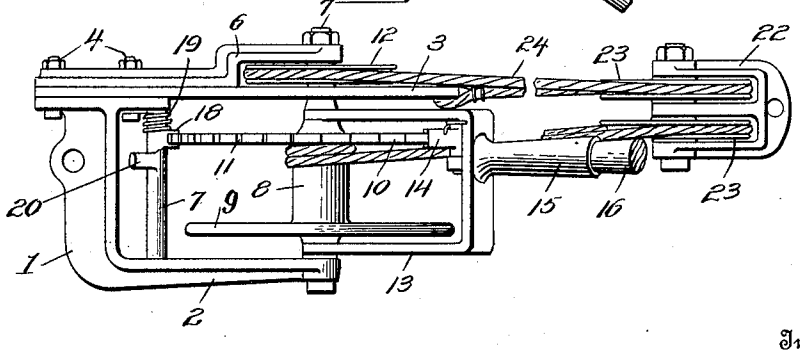


Fig. 3.



Inventor

Max Rossmann

Witnesses

F. C. Gibson.

K. Peacock

By Victor J. Evans

Attorney

COLUMBIA PLANOGRAPH CO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

MAX ROSSMANN, OF ST. PAUL, MINNESOTA.

FENCE-STRETCHER.

1,091,964. Specification of Letters Patent. Patented Mar. 31, 1914.

Application filed May 16, 1913. Serial No. 768,147.

To all whom it may concern:

Be it known that I, MAX ROSSMANN, a citizen of the United States, residing at St. Paul, in the county of Ramsey and State of Minnesota, have invented new and useful Improvements in Fence-Stretchers, of which the following is a specification.

This invention has relation to wire fence stretcher and it consists in the novel features hereinafter described and claimed.

An object of the invention is to provide a durable stretcher of simple construction which may be readily operated for efficiently stretching a fabric wire fence.

With this object in view, the stretcher comprises a frame having arms between which is journaled a drum, the said drum having end flanges, one of which is provided with teeth. A bracket is mounted upon the frame and the outer end of the shaft of the drum is journaled in the said bracket. A pulley is mounted upon the said shaft between the frame proper and the bracket. A two block pulley is used in combination with the frame and its parts and a cable is arranged to wind upon the drum and is trained around one of the pulleys of the block, thence around the pulley upon the shaft of the drum, thence around the other pulley of the block and is carried back and is connected with the frame. Any suitable means may be provided for connecting the wire fence with the block. A yoke is pivoted upon the shaft of the drum and carries a spring pressed pawl adapted to engage the teeth of one of the heads of the drum. An operating lever is detachably connected with the yoke. A holding pawl is pivoted upon the frame and is engageable with the teeth of that head of the drum having the same. Any suitable means may be provided for connecting the said frame with a post or other fixed object.

In the accompanying drawings—Figure 1 is a perspective view of the fence stretcher. Fig. 2 is a top plan view of the frame and the attached parts. Fig. 3 is a side elevation of the same.

The stretcher comprises a frame 1 having parallel arms 2 and 3, the arm 2 is preferably integral with the body portion of the frame 1 while the arm 3 is preferably made in a separate piece and is attached to the body of the frame 1 by means of bolts 4. The frame 1 may be provided with a chain section 5 or other suitable means whereby the said frame may be connected with a post or other fixed object. A bracket 6 is secured to the frame 1 by means of the said bolts 4 and the said bracket is provided with an end portion which is spaced from the outer surface of the arm 3. A shaft 7 passes transversely through the bracket 6 and the arms 2 and 3 and carries a winding drum 8 which is located between the arms 2 and 3. The said drum 8 is provided with heads 9 and 10, the head 10 being provided upon its periphery with teeth 11. A pulley 12 is journaled upon the shaft 7 and is located between the outer surface of the arm 3 and the end of the bracket 6. A yoke 13 is fulcrumed upon the shaft 7 between the arms 2 and 3 and beyond the outer surfaces of the heads 9 and 10. The said yoke is provided at an intermediate point with a pivoted spring pressed pawl 14 which is engageable with the teeth 11 upon the periphery of the head 10. The yoke 13 is provided with a socket 15 which is adapted to detachably receive the end of an operating lever 16. A pawl 17 is pivoted between the arms 2 and 3 and is provided with an end portion 18 adapted to engage the teeth 11 upon the periphery of the head 10. The said end 18 is normally held toward the teeth by means of spring 19, one end of which engages the pawl and the other end engages the frame 1. The pawl 17 is further provided with a lug 20 which may be used as a handle or grip when it is desired to turn the pawl so that the end 18 is moved out of engagement with the teeth 11 upon the periphery of the head 10. A block 21 is used in conjunction with the parts heretofore described and the said block is provided with means 22 for connecting the same with a section of wire fence. The block 21 is provided with two journal pulleys 23. One end of a cable 24 is arranged to wind upon the drum 8 and from the said drum the said cable is trained around one of the pulleys 23 thence back and around the pulley 12, thence toward the block 21 and around the other pulley 23, thence back and secured at its other end to the end of the arm 3. Therefore it will be seen that when the lever 16 is swung in one direction, the pawl 14 will engage the teeth of the head 10 and turn the said head and the drum 8 so that the cable 24 is wound upon the drum. This will move the block 21 toward the frame 1 and consequently, the fence section which is connected with the said block through the means 22, will be

stretched. As the lever 16 is swung toward the block 21, the pawl 14 will ride over the teeth 11 upon the periphery of the head 10, but at this time, the end 18 of the pawl 17 will engage the teeth 11 and hold the parts so that the cable 24 will not unwind from the drum 8. When it is desired that the cable 24 should unwind from the drum 8, an operator turns the pawl 17 by using the lug 20 so that the end 18 is carried out of the path of movement of the teeth 11 upon the periphery of the head 10. Therefore, the drum 8 and its attached parts are rendered free to rotate in either of two directions. Therefore it will be seen that a stretcher of simple structure is provided and that the parts are compactly assembled so that the stretcher may be conveniently used in places where space is limited and at the same time, the stretcher is positive in its action and will effectually draw or stretch a section of fence fabric.

Having described the invention what is claimed is:

A stretcher comprising a frame having a fixed arm and a detachable arm, said arms being parallel and spaced, a shaft passing through the arms, a bracket attached to the frame and receiving the outer portion of the shaft, a pulley mounted upon the shaft between the bracket and one of the arms, a drum mounted upon the shaft between the arms and having heads one of which is provided at its periphery with teeth, a spring pressed holding pawl pivoted upon the frame and engageable with the teeth of said head, a yoke pivoted upon the shaft between the arms and beyond the outer sides of the heads and having a spring pressed pawl engageable with the teeth of one of the said heads, and a lever detachably connected with said yoke.

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

MAX ROSSMANN.

Witnesses:
D. I. MACDONALD,
H. GALLICK.

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