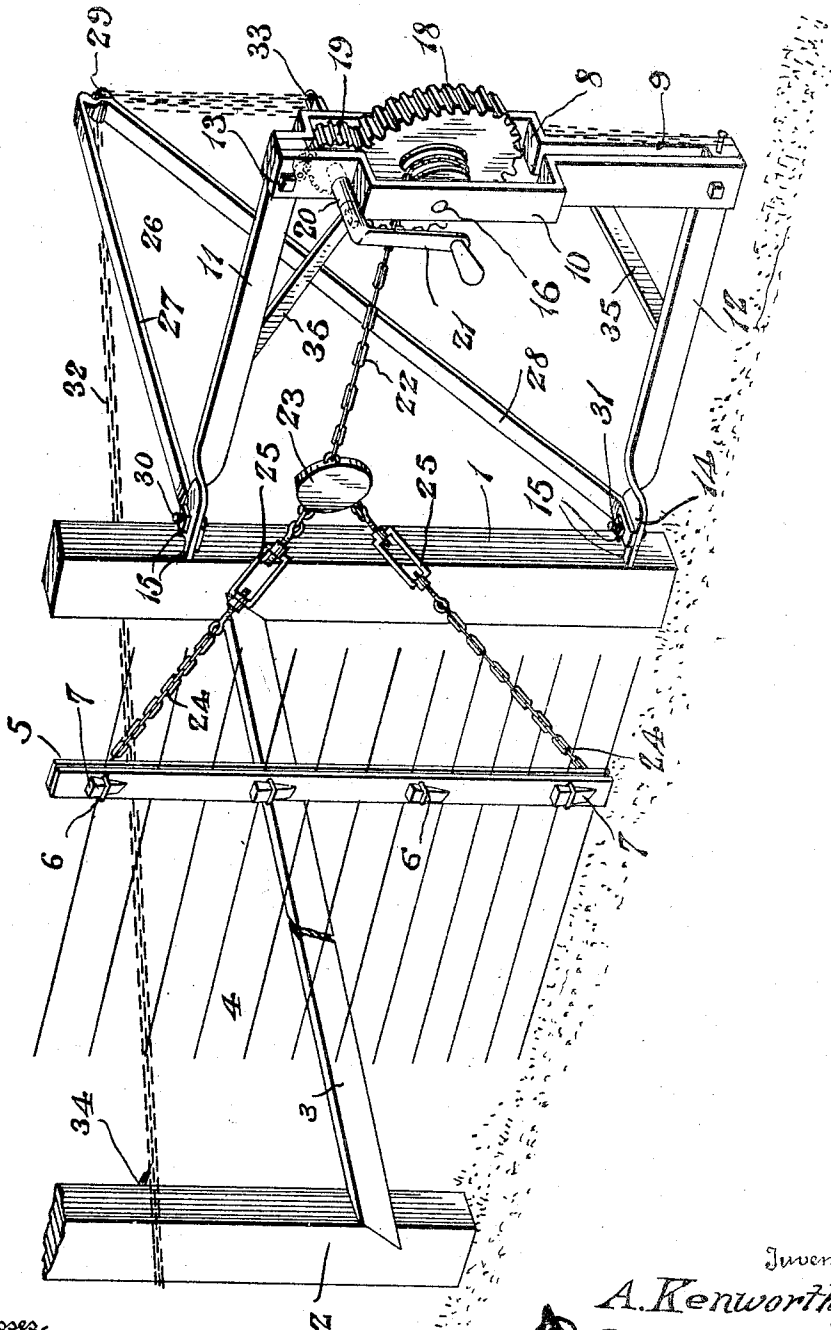


A. KENWORTHY.
 WIRE FENCE STRETCHER.
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1,210,080.

Patented Dec. 26, 1916.



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ALLEN KENWORTHY, OF EARLHAM, IOWA.

WIRE-FENCE STRETCHER.

1,210,080.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ALLEN KENWORTHY, a citizen of the United States, residing at Earlham, in the county of Madison and State of Iowa, have invented certain new and useful Improvements in Wire-Fence Stretchers; 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.

This invention is an improved wire fence stretcher the object of the invention being to provide improved apparatus of this kind which is cheap and simple, is light and portable, and which may be quickly arranged for use and without the employment of guy ropes or wires or other appliances and which is adapted to stretch the wire far enough beyond the end post to allow the wire to be readily fastened without the aid of a pinch bar or other like tool.

The invention consists in the construction, combination and arrangement of devices hereinafter described and claimed.

The accompanying drawing is a perspective view of a wire fence stretcher constructed in accordance with my invention, showing the same arranged for use.

For the purposes of this specification I show an end post at 1, an intermediate post at 2, an end post brace at 3 and I also show fence wires 4 engaged between the members of a draw bar 5, said members being clamped on opposite sides of the wires by slotted keepers 6 and wedges 7. Within the scope of my invention the draw bar may be of any suitable construction.

The fence stretcher has a vertical frame 8 which comprises a pair of spaced members 9 each of which has an offset portion 10. Upper and lower thrust arms 11—12 are provided which have their outer ends arranged between the upper and lower ends of the members 9 and secured as by means of suitable bolts 13. The inner ends of the thrust arms are turned horizontally as at 14 and adapted to bear against the outer side of the end post to arrange the frame of the wire stretcher in line with the fence and hold the members 9 beyond the end post. Preferably the inner ends 14 of the thrust arms are notched and provided with engaging claws 15.

A shaft 16 is mounted in bearings in the offset portions of the members 9 and is pro-

vided with a drum 17 and a spur gear 18. This gear is engaged by a pinion 19 on a shaft 20 which also has its bearings in the members 9 and is provided with a detachable crank 21.

A stretcher chain 22 is attached to the drum and also to a block 23. A pair of chains 24 connect the block to the ends of the draw bar and each of said chains 24 is here shown as provided with a turn-buckle 25.

It will be understood that by turning the crank shaft in the required direction the rotation of the drum causes the latter to draw on the chains and the draw bar and to stretch the fence wires as desired. Owing to the distance the frame 9 is held from the end post by the thrust arms the draw bar can be pulled beyond the outer side of the end post and enable the wires to be fastened without the employment of a pinch bar or other like tool.

To prevent the frame of the stretcher from being drawn to one side by the stress on the chains and fence wires I provide a brace 26 which is arranged substantially at right angles to the thrust arms and is here shown as substantially V-shaped, having upper and lower arms 27—28 and having a saddle or guide notch 29 in its apex. The inner ends of the arms 27—28 are respectively bolted to the inner end of the thrust arm as at 30—31. The brace may be arranged on either side of the thrust arms as may be required and should extend from the side of the post opposite that on which the wires are to be placed. A chain 32 is engaged with the notch 29 and has one end attached to the frame 8 as at 33, the other end of the chain being attached as at 34 to one of the intermediate posts 2.

While I have herein shown and described a preferred form of my invention, I would have it understood that changes may be made in the form, proportion and construction of the several parts without departing from the spirit of the invention and within the scope of the appended claim.

Having thus described my invention, I claim:—

A wire stretcher of the class described including a pair of vertical members, each having a substantially U-shaped offset portion near its upper end, the web of the U-shaped portion being parallel with the vertical member forming a housing, upper

and lower thrust arms secured to the upper
and lower ends of the vertical members and
extending horizontally therefrom, their free
ends being adapted to be secured to a sup-
5 porting post, a drum journaled within said
U-shaped portions, means by which said
drum may be rotated, a substantially V-
shaped brace rod secured at its ends to the
free ends of the thrust arms and extending
10 at right angles therefrom, and a supporting

chain connected at one end to a post and
slidable through the apex of the brace and
having its opposite end connected to the
frame.

In testimony whereof I affix my signature 15
in presence of two witnesses.

ALLEN KENWORTHY.

Witnesses:

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